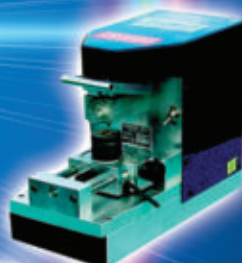


The National Locksmith®

November 2005
Volume 76
No. 11
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...also this month
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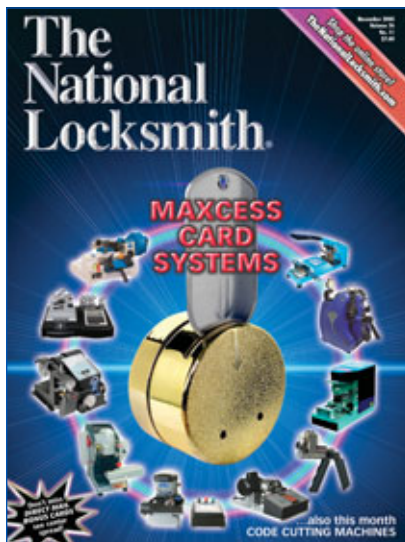
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An old face with a new name - MAXCESS - is back, offering proven magnetic locking systems. Plus, a quick reference code cutting chart featuring all the primary manufacturers where one is sure to fit your needs.

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National Publishing Company

The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. Periodicals postage paid at Bartlett, Illinois 60107 and additional mailing offices USPS 040110. Subscriptions \$46.00 per year in the USA; \$58.00 per year in Canada; \$72.00 in all other countries. Single copies \$7.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861.
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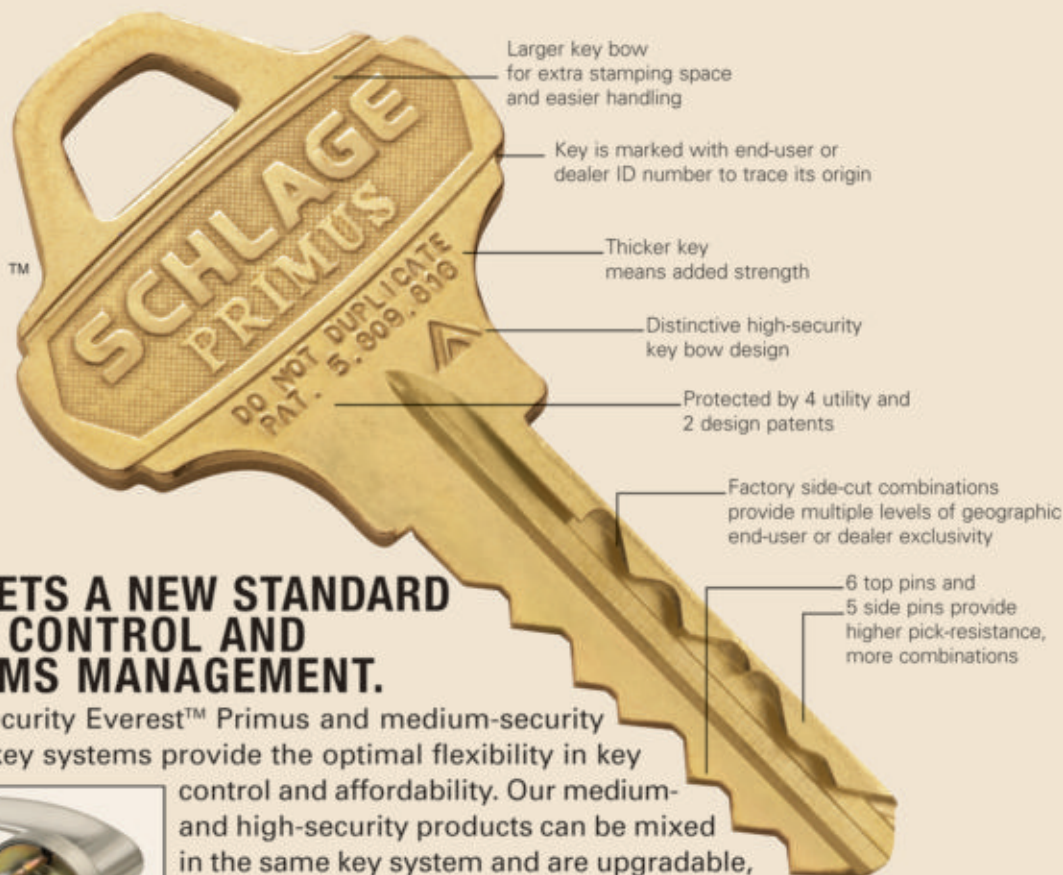
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COMMENTARY



A real life crime story... Locksmith Eleven?

Movies like Oceans Eleven aren't very realistic. Or are they? In this real life news story, a locksmith in England goes bad and organizes a series of heists that net him and his gang hundreds of thousands of dollars. Here's the plot from London news:

A MASTER locksmith from Croydon has been jailed for his part in a string of "ingenious" cash robberies across London.

Locksmith Richard Hall, 54, of Northcote Road, and other gang members were caught as they plotted to snatch millions of pounds from security guards who were refilling bank ATM machines. The professional armed robbers were jailed for a total of 61 years.

They stole more than \$600,000.00 over four years by attacking security guards refilling ATM machines.

Bugging devices also picked up their boasts about a string of other jobs over the past 10 years, including a raid in Thornton Heath.

When police decided to arrest the gang they found a loaded revolver, balaclavas, laundry bags, and a sketch of their plan. At Hall's home, officers found a walking stick which could be converted into a gun.

Blackfriars Crown Court heard that mastermind Stephen Howard, 50, began plotting the audacious heists only six months after being released from prison for a previous robbery.

Howard was jailed for 22 years, and his fellow ringleader Stephen Dickson, 53, for 16 years.

Firearms provider Paul Johnson, 45, was jailed for 12 years and Hall was sentenced to 11 years for involvement in the conspiracy.

Judge Timothy Pontius said: "The detail of the extensive recordings reveal plainly not only their active roles, but also that armed robbery was a way of life and a substantial source of income. It takes little imagination to understand the terror of those who found themselves staring down the barrel of a revolver or sawn-off shotgun."

Prosecutor Mark Gadsden told the court: "The gang's target was always cash in transit, with security guards targeted as they came to reload ATMs on bank premises."

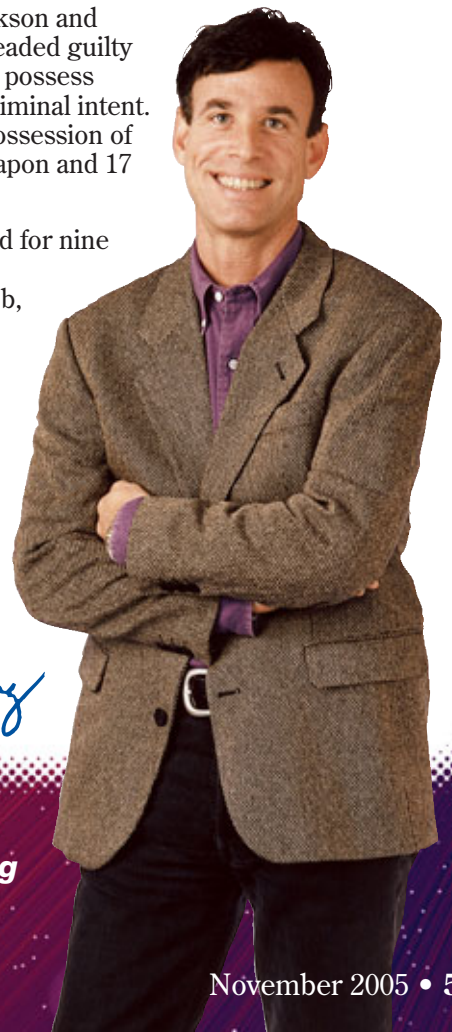
Hall was vital in setting up the targets by drilling the locks on the bank doors and providing the gang with a workable key.

Mr. Gadsden added: "It was all done in such an expert manner that not even the bank staff, who would continue using their own keys, realized that anything was amiss."

Howard, of Trevithick House, Rennie Estate, Galleywall Road, Rotherhithe; Dickson, of Bushbaby Close, Southwark; Johnson of Maltby Street, Bermondsey; and Hall, pleaded guilty to conspiracy to rob.

Howard, Dickson and Johnson also pleaded guilty to conspiracy to possess firearms with criminal intent. Hall admitted possession of a prohibited weapon and 17 ecstasy tablets.

Hall was jailed for nine years on the conspiracy to rob, 18 months consecutive on the weapons charge and six months consecutive for the drugs.



Marc Goldberg

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Free Locksmith Forums!***

www.TheNationalLocksmith.com

Marc Goldberg
Publisher

Mango's Message

In Memory of Jim Langston 1947–2005

My wife Rachel and I have a routine that we do and have always practiced. When we greet, we always hug, kiss, and tell each other that we love the other. When we depart, we always hug, kiss, and tell each other that we love the other, often with a reminder from her to me that this may be the last time I see her; knowing full well that one of these times it will be the last time I see her, and I can rest assured that the last thing I did was hug her, kiss her and tell her I love her.



When I learned the news of Jim Langston's passing on Monday, September 26, my heart was filled with remorse. Just the Saturday prior, Rachel asked me if I had talked to Jim lately. I told her I hadn't and that I was going to call him the following week. Regrettably, Jim passed away before I had the chance to call. I am somewhat comforted, however, knowing that I had talked to him just a few weeks prior and he

was in good spirits, leaving me with a joke as always.

Jim and I go back several years. He lived in Ft. Worth, Texas and when I lived in Grapevine, Texas for a while we visited often, and would make our monthly pilgrimage to what was then the Greater Dallas Locksmith Association meetings, the annual Texas Locksmith Association convention, annual Oklahoma Locksmith Association convention, and the annual Associated Locksmiths of America (ALOA) convention, to name a few.

As well as a fine, devoted locksmith, Jim was an accomplished musician and loved country/bluegrass music. One of his greatest passions was picking up a guitar, mandolin or fiddle and playing a few hot licks for his adoring audience. He was a true entertainer. One of my fondest, and most memorable times with Jim was at an ALOA show in Nashville, TN. One of the days there we spent the entire morning going to various music stores playing a number of different guitars, mandolins and fiddles, a love and passion we both shared. We had a spectacular time. We were two kids in a candy store and nothing else in life mattered at the time. Life was perfect. That afternoon we went to the Ryman Auditorium, the original location of the Grand Ole Opry. The Ryman was closed at the time, but they still let us in to look around. The walls are lined with every important country/bluegrass artist that ever performed there, and Jim knew almost every one. In fact, Jim

knew many personally and has roots that go back to the Ryman—he had family members that performed there. That's quite an honor for any country/bluegrass artist. You know you've made it when you play at the Ryman.

While there we commanded center stage and had the audience in the palm of our hands riveted to the edge of their seats, even though we were the only ones present. For us, we experienced utopia. It was one of those magical days you just never forget.

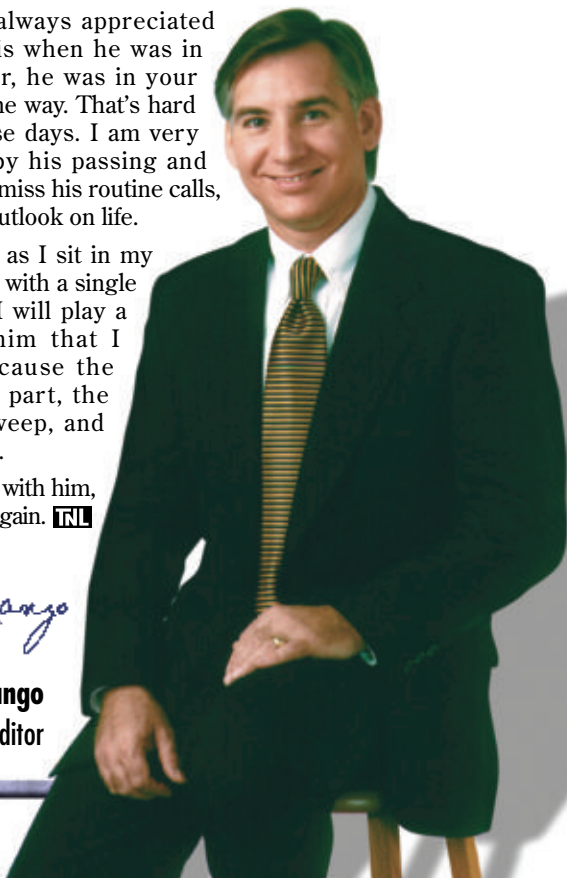
Many of you will remember Jim as the "Beginners Corner" author for *The National Locksmith* several years ago. I can't tell you how rewarding it was for me to give him that opportunity. It filled him with an immense sense of pride to hold that position and he loved it. For years Jim suffered from severe diabetes, which eventually took his sight. Pronounced legally blind, Jim ultimately resigned as author of Beginners Corner, sure that things would eventually get better and he would be back again. Over the next few years Jim would frequently comment that after his next laser eye treatment to stop internal bleeding, his vision would get better and he would be back to writing articles again. I never had the heart to shatter his dreams, instead supporting his hopes with the assurance that his articles were always welcome, but I whole heartedly knew that was never to be.

What I always appreciated about Jim is when he was in your corner, he was in your corner all the way. That's hard to find these days. I am very saddened by his passing and will forever miss his routine calls, jokes, and outlook on life.

Tonight, as I sit in my music room with a single candle lit, I will play a song for him that I hope will cause the heavens to part, the angels to weep, and Jim to smile.

Peace be with him,
till we meet again. **TNL**

Greg Mango
Editor



Toyota ORIGINAL Transponder Keys



TR47 Keyway

If you have a programmer you can expand your Toyota business to include these late models not covered by the TOY43AT4 type blank by using these 2 Toyota Original Transponder Key Blanks.

No. 89785-08020

- 2005 Scion tC; 2005 Corolla; 2005 Matrix;
- 2005 Tacoma
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33.95 ea. 3/ 32.95 ea.

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G.M. Keying Kit

You'll find this recently introduced ASP kit for late General Motors invaluable. These parts are not found in Strattec keying kits.



No. A41-152 \$148.95

- | | |
|----------------------------------------------|---------|
| • Cadillac SRX | 2004 up |
| • Pontiac Grand Prix | 2003 up |
| • Chevrolet Malibu | 2004 up |
| • Pontiac G6 | 2005 up |
| • Cadillac STS | 2005 up |
| • Uplander, Montana, Terraza & Saturn Relay | 2005 up |
| • Chevrolet Cobalt, Pontiac Pursuit (Canada) | 2005 up |
| • Chevrolet Aveo | 2004 up |
| • Chevrolet Colorado, GMC Canyon | 2004 up |



NEW



1639
Larson Door
10/ 36¢ ea.
50/ 33¢ ea.



1640
Larson Door
10/ 36¢ ea.
50/ 33¢ ea.



1641
Caterpillar
10/ 57¢ ea.
50/ 51¢ ea.



1092F
Master Cable Lk
10/ 38¢ ea.
50/ 32¢ ea.



CH1C
Arrow 1C I-Core
10/ 46¢ ea.
50/ 39¢ ea.



CH1D
Arrow 1D I-Core
10/ 46¢ ea.
50/ 39¢ ea.



Toyota & Lexus Remote Housings
KB30-113 Long HS
KB30-114 Short HS
KB30-115 TR47

... More New Key Blanks Arrived Too Late To Show

- | | |
|--------------------|-------------------------------|
| IL-F1098JD | John Deere Tractor (NP) |
| IL-1638 | Biaxial® G3, 5 pin (NP) |
| IL-A1638 | Biaxial® G3, 6 pin (NP) |
| IL-1643 | Mintcraft Padlock |
| IL-1644 | Biaxial® G8, 5 pin Cam (NP) |
| IL-1645 | Fulton Trailer Hitch (NP) |
| FT-54D | Fort Utility Locks (BR) |
| M30658-1112 | National Utility Pin Tum (BR) |
| M30658-2112 | National Utility Pin Tum (BR) |

Chipless Transponder Blanks by Jet



H72 Housing **DA34 Housing** **HD106 Housing**

Save those old and mis-cut transponder keys. Turn trash into treasure with these Jet Chipless Blanks. Carefully remove the intact, operating transponder from the old key, re-insert into the correct Ford, Nissan or Honda Blank Housing. Now cut and properly program and your done! You must be qualified in this procedure before use.

JET \$1.97 ea.
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Appeal To Harley Davidson Fans That Drive Fords



598333-Harley PATS 2 17.45 ea.
5/ 16.95 ea.
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These original Ford transponder keys have the Harley Davidson crest on one side and an attractive Ford logo on the other side. Enjoy additional sales and profits with these specialty keys.



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Mercury ...599179
Lincoln ...691259

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Recognized by The Transportation Security Administration Agents as an acceptable luggage lock.

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No. 4680NKL Silver
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Keyless Convenience Model
\$7.15 each

No. 106
California Approved Model
\$7.35 each



Meets California Department Of Justice AB106 Safety Standard



LETTERS

Better Late Than Never

Have you ever read Dear Abby where a bride writes in and says, "We have been married for over one year and we received many fine wedding gifts, but I neglected to send any Thank You Notes. What should I do?" I feel that I'm in the same boat. The answer may be "Better late than never."

Over a year ago I sent in a tip to Technitips and received a wonderful prize from Keedex. It was a "Spin Out" Screwdriver for Mortise Cylinders and it's something I use very often.

Last year I sent in a tip and this time I received a prize from Steve Young (Lockmasters). It was "Air Bag Steering Columns." Unfortunately, I'm not in auto work anymore but a Locksmith buddy of mine made very good use of it.

It may be late, but still I'd like to thank Keedex and Lockmasters for the wonderful prizes, and send thanks to *The National Locksmith* for the opportunity for me to send in tips and win these prizes.

Sincerely,

*Kenneth Novey CRL
Iowa*

Corbin & Russwin Book

Over the years I've collected a book on about every lock I might encounter. I've had bits and pieces on most things including Corbin & Russwin. Is there a book on only Corbin & Russwin from the oldest to the latest?

This would certainly help if such a thing exists.

Thanks,

*Richard Berry
Indiana*

Editors Note: I am not aware of a dedicated publication to Corbin & Russwin products only.

What Will They Think of Next?

Seems that car thieves have found yet another way to steal your car or truck without any effort at all. The car thieves peer through the windshield of your car or truck, write down the VIN# from the label on the dash, go to the local car dealership and request a duplicate key based on the VIN#.

I didn't believe this e-mail, so I called a friend at Chrysler Dodge and pretended I had lost my keys. They told me to just bring in the VIN#, and they would cut me one on the spot, and I could order the keyless device if I wanted.

The Car Dealer's Parts Department will make a duplicate key from the VIN#, and collect payment from the thief who will return to steal your car. He doesn't have to break in, do any damage to the vehicle, or draw attention to himself. All he has to do is walk up to your car, insert the key and off he goes to a local Chop Shop with your vehicle.

You don't believe it? It really is that easy.

To avoid this from happening to you, simply put some tape (electrical tape, duct tape or medical tape) across the VIN Metal Label located on the dashboard. By law, you cannot remove the VIN, but you can cover it so it can't be viewed through the windshield by a car thief.

I slipped a 3 X 5 card over the VIN# on my vehicle.

E-Mail

To Jake and the Staff

Thank you for the Technitip prize. I appreciate the opportunity to submit a Technitip and the prize I from CCL that I received. I will be sure to put it to good use.

Sincerely,

*Dave Boerner
Coeur d'Alene, Idaho*

TRL



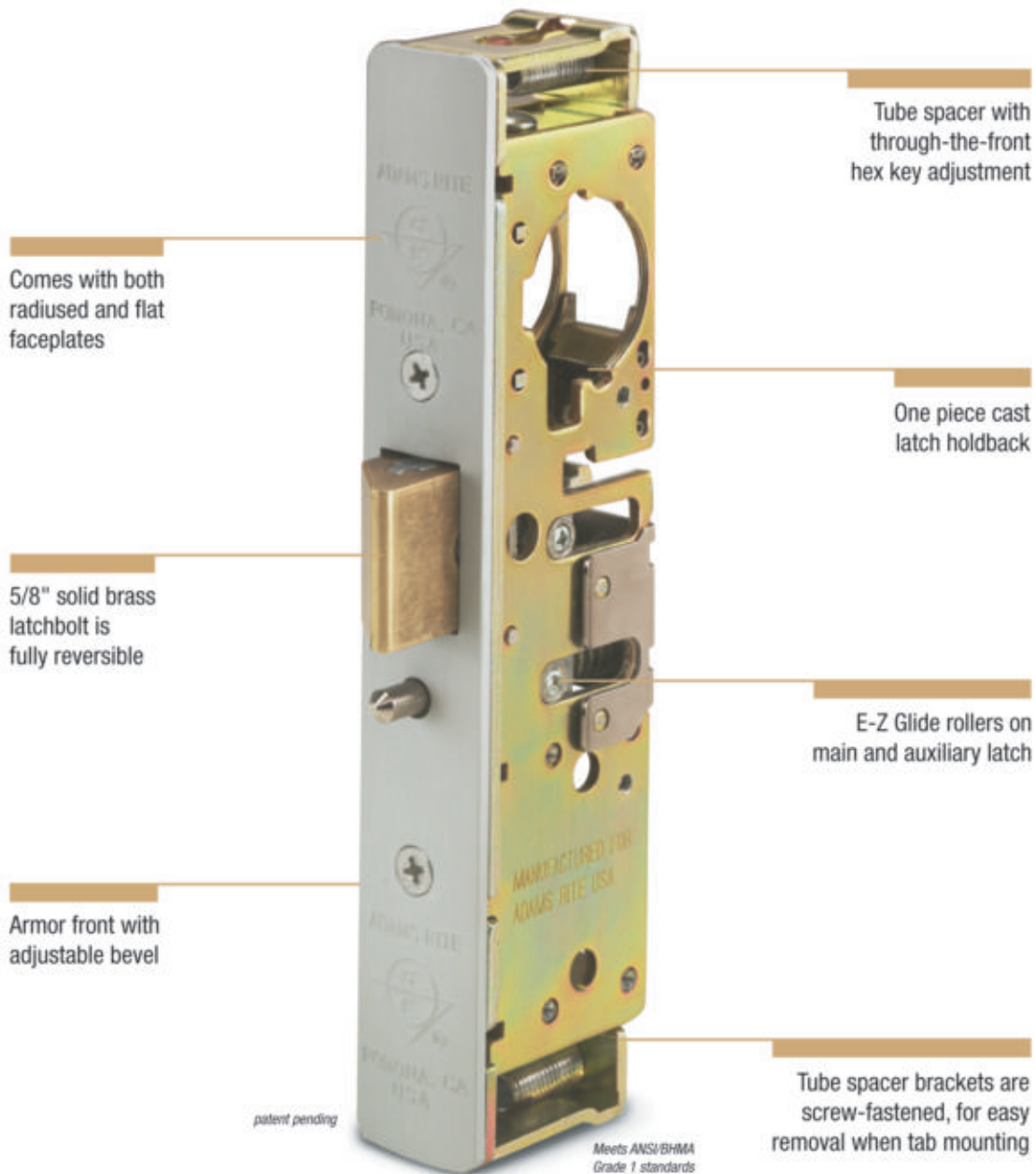
E-mail Your Views:
natllock@aol.com

Please include your first and last name.

The National Locksmith

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Streamwood, IL 60107
Attn: Editor

AMBIDEXTROUS



Non-Handed Reversible Bolt Deadlatch

The new 4900 Series Deadlatch from Adams Rite works for either right or left handing. Its innovative engineering enables installers to reverse the latchbolt or adjust the bevel of the faceplate with nothing but a screwdriver. Features like through-the-front spacer adjustment and an adjustable bevel give you even more flexibility. The 4900 Series is available in 1-1/8" and 1-1/2" backsets; is compatible with all Adams Rite paddles, handles, latch pulls and entry trim; and just as you'd expect is the same dependable quality as all of our hardware.

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For more information, log on to our Web site or call 800-872-3267.



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Cafe

Somerset Blank for GM

A1 Security Manufacturing's Somerset transponder blank B107S-PT with no head identification substitutes for A1's original blank GMX-367. The PK3 transponder blank is on-board programmable for 2004–2006 Pontiac Grand Prix models. It is also applicable for the Chevrolet Uplander, Saturn Relay, Pontiac Montana, Buick Terraza, and partial year for 2005 GM minivans. The minivans used this key for several months before switching to the standard corporate keyway.



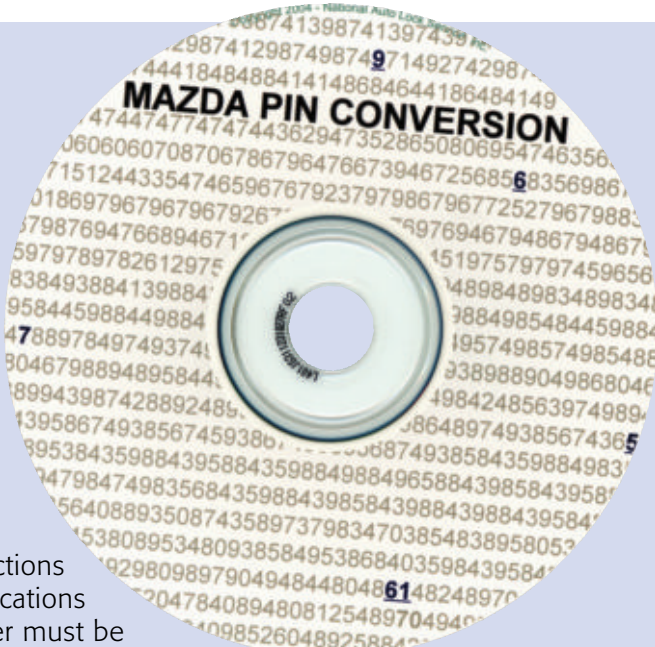
American Edge

A simple, affordable security upgrade for a multitude of businesses, this patent-pending system lets you eliminate unauthorized key duplication—without investing in costly, complex “high security” options. Edge key control mortise, rim and door hardware cylinders fit new and existing padlocks and locks for virtually all makes. Contact your security provider or your American Lock distributor for details.



Mazda Pin Code

ASP has software for the PC or laptop that provides the automotive locksmith with the dealer “Codeword,” or P.I.N. number that is required for on-board-programming. The instructions that are included with the software show the locations of the immobilizer box. The immobilizer number must be entered into the software for conversion. The software provides information 24 hours a day, seven days a week, and allows unlimited use of the PIN for on-board-programming of Mazda 626, MPV and Miata's.



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Cho/Ce Plus Keys operate A-Q keyways in an existing system – but original keys will not operate Cho/Ce Plus A-Q key controlled IC cores.

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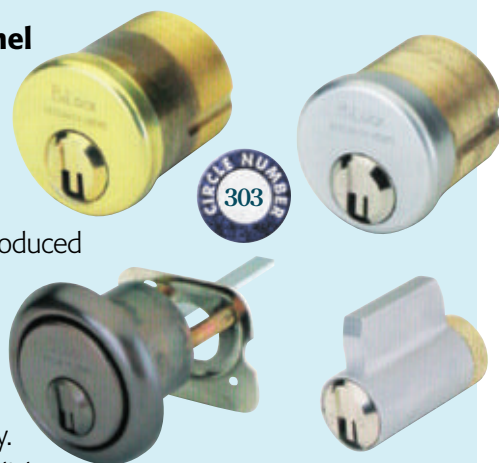
Aim higher

BiLock has a new Architectural focus on the Locksmith Channel

BiLock high security cylinders have been sold in North America for over 18 years. In the past, the primary market drive was the gaming industry by securing slot machines and casino counting rooms. The removable core and unique locking features made this the ideal lock for high frequency use and constant rekeying.

Today BiLock has a new patent and a new key design and is being reintroduced with a distinctly architectural focus for the locksmith industry. A full line of mortise, rim and key in lever cylinders are offered to secure any institutional, commercial or residential property. The BiLock cylinders are available in two formats—QC and EX. The QC uses the quick change removable core and the EX is the physical attack model. The EX model has been tested to UL 437. The systems are interkeyable for maximum flexibility.

End users around the world have called this award winning design stylish, cool and fancy. Exclusive dealerships are now being set up in North America so there will be only one locksmith with service capability per local market.



Detex Corporation Offers New Outside Trim Design

Detex is pleased to offer its Bristol trim design for its popular Value Series line of Panic Hardware. Bristol's through-bolted modular design allows changing the function and the trim without modification to the device. It

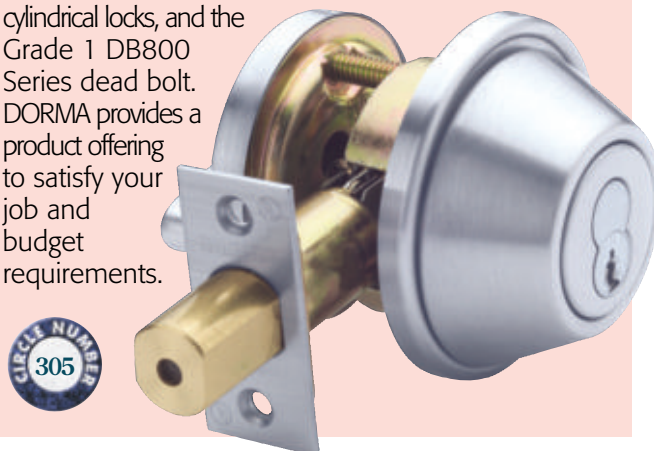
comes in two finishes, 689-Black & 693-Aluminum and offers a choice of two functions, 08-Entrance by lever/key locks or unlocks lever & 14-Entrance by lever/lever operable at all times. Our 161 cover plate is included and cylinder collars for 5- and 6-pin cylinders are provided with all trims. Specify catalog no. CCL cylinder collar for use with 7-pin/7-pin interchangeable core cylinders. Lever trims are handed and easily field reversible.



Dorma Grade 2 Dead Bolt

DORMA Architectural Hardware's DB600 Series Grade 2 dead bolt is now available with an interchangeable core cylinder. This latest addition to the DB600 Series Dead Bolt adds to DORMA's extensive line of products available with either conventional or small format interchangeable core cylinders.

The DB600 with an interchangeable core cylinder compliments an already solid Grade 1 and 2 range of products that include Grade 1 ML/MK9000 Series mortise lock, Grade 1 CL/CK 800 or Grade 2 CL/CK 700 Series cylindrical locks, and the Grade 1 DB800 Series dead bolt. DORMA provides a product offering to satisfy your job and budget requirements.



2005 Fast Facts™

The 2005 Seventh edition of Fast Facts™, the encyclopedia index of auto and motorcycle key making facts, by Sieveking Products Co. is now available. Fast Facts™ has over 2,400 listings (1960–2005), with 439 auto key plates and 148 cycle key plates. It is available in the spiral bound 6" x 11" desk size. Fast Facts™ has added many new ITL numbers, Pak-a-Punch information, HPC CodeMax numbers, Aero & Baxter Try-out Keys, Jet and A-1 Latest Transponders, the newest key numbers, code series, and step-by-step transponder originate, duplicate, and emergency start methods.



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Innovative Kwik-Install® Design



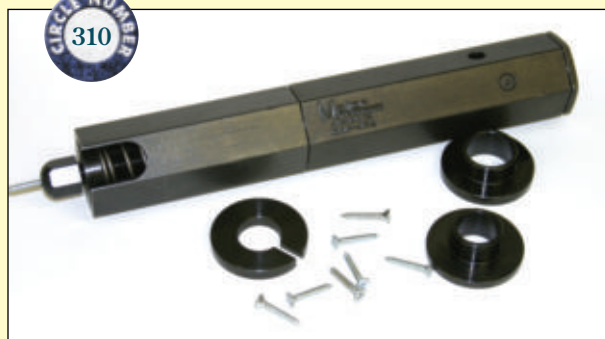
Kwikset® has introduced a device that significantly reduces installation time, and eliminates common mistakes for door hardware installation with Kwikset UltraMax Security® doorknobs.

The primary innovation with the Kwik-Install® device is pre-installed lead screws, which hold the door hardware together, through the door. The pre-installed screws and patented alignment plates significantly reduce installation time and help professional avoid common installation mistakes.

Kwik-Install is featured on all Kwikset UltraMax Security® products along with concealed screws installation. Kwik-Install®, without concealed screws, is also standard on Kwikset Maximum Security® and Kwikset Security® products.

Major Manufacturing

At four pounds, the Classic Magnum Puller (CMP-475) from Major Mfg. is a true heavy weight. It is machined from a solid hex shaped bar of 1 5/8" wide steel that is 10 1/2" long. A ball bearing race makes pulling smooth and easy. Storage for extra screws used by the puller is provided under a threaded cap. Three adapters are also included to help with different applications.



New Tech-Train 2050 Car Opening Kit

Lockmasters, Inc. is pleased to announce the introduction of the new and improved Tech-Train 2050 car opening set. The Tech-Train 2050 set was first introduced in 1988, and has been the first choice of many locksmiths ever since. While other tool sets have come and gone, the TT-2050 set has continued to set the standards that others have attempted to follow.

One of the main selling features of the TT-2050 set has always been that it is the least expensive set on the market to own and update. While other sets may cost over a hundred dollars a year to keep up to date, the TT-2050 set has averaged adding only one tool per year since 1988. For three of those years, no new tools at all were added! This value conscious approach has always driven Steve Young, the founder of the Tech-Train line of tools, and continues with the latest version of the TT-2050 set.



The new TT-2050 set boasts many upgrades and improvements over the earlier versions, yet the cost remains the same as last year's tool set! Some of the new features in the TT-2050 kit include:

- A spacious new case with three interior zipper compartments and one large outside pocket that easily holds all of the tools and the manual in an extremely well organized manner.
- A super-bright three-cell krypton inspection light with a 15" flexible wand, complete with batteries and lifetime warranty!
- The world-famous Tech-Train inflatable wedge with the interior stiffener and rounded corners is now included as standard equipment in the set
- All of the single-ended tools now come with high-visibility

handles, with the tool numbers engraved on each handle.

In addition to all of these new features the TT-2050 set still offers the famous Tech-Train lifetime warranty and money back satisfaction guarantee at no additional charge over last year's kit!



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Cluster Safes by Perma-Vault

Perma-Vault's PV-27 and PRO-20 safes are ideal to use as a cluster in locations such as schools, carry-out and delivery restaurants, or hospitals and health care facilities where multiple users need access to their own depository. This particular configuration shows both safes and some of the many locking options available.



The PRO-20 (left on the stack) has a secure cash or document deposit slot in the top of the safe, with an anti-fish baffle to deter content removal. The PV-27 (right on the stack) has a solid door. Each unit is available with a variety of locks, including pushbutton locks, electronic digital keypads, dual custody safe deposit locks, single high security UL listed cam locking systems and more.

Keyed units can be master keyed, keyed alike or keyed differently. Restricted keyways and virtually pickproof locks protect against unauthorized key duplication.

Perma-Vault can customize the safe configuration to meet any customer's needs. Access to individual depositories allow restaurant drivers to maintain their own cash bank rather than bothering the store manager after each delivery; hospitals and schools use the depositories to secure various items such as records, pharmaceuticals or weapons for short-term transfer. Each individual lock box is built with heavy gauge steel and has predrilled holes to permit bolting, mounting, and stacking on any structurally sound surface. Units measure 6" tall by 6" wide and vary in depth from 7.5" to 11.5", and weigh from 9 to 11 pounds, depending upon model. **INL**

New Schlage Wyreless WA Series

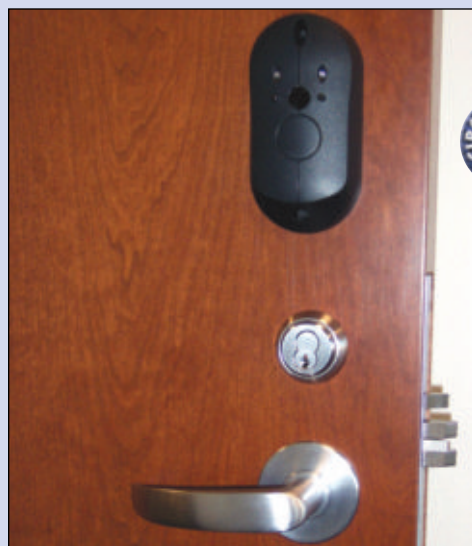
Ingersoll Rand Security Technologies has introduced its new Schlage Wyreless WA Series of locksets, a family of wireless access control products that combines all elements required at the door for a complete access control solution in one integrated package. The systems install in one hour.

The new WA5600 modular lock includes the card reader, electric lock, Request-to-Exit sensor, door position switch, battery pack and RF communications package. An optional Request-to-Enter sensor is also available. The new WA993 wireless exit trim for Von Duprin 98 and 99 exit bars also combines the reader module, trim faceplate including electric lock, door position switch, transceiver module and battery pack into one kit. The unit includes a Schlage D-Lock Cylindrical or L-Lock mortise lockset.

Either can be used on wood or metal doors. With both, users have a choice of credential readers, including HID, Indala and AWID proximity, iClass smart card, and magnetic stripe readers. Reader operating temperatures are between -35°C to $+66^{\circ}\text{C}$. They are weather resistant for outdoor applications.

An 8-AA battery pack provides up to four years of battery life. The kits have a range of 200 feet in normal building construction on the same floor.

A new wireless exit kit adds full access control capabilities to new and existing exit bars without wiring to the door or around the door. It maintains UL-LSC for fire doors, negating the need to re-certify the door. It installs in two hours since there is no need for exit device electrification kits, high current power supplies or transfer hinges. There is also no need to core the door or run wiring.





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MAXCESS

Card Systems



by
Sal Dulcamaro,
CML

When I started out in locksmithing about 30 years ago, there was a rather new product being advertised called CorKey. CorKey was a locking system that used magnetized card keys in conjunction with a locking mechanism that used magnetic tumblers. I remember being intrigued about the product and reading about it in the various locksmith publications, however, I never got the opportunity to have the product in my hands and evaluate it. Back in the late 1970's, I was far from being an established technical writer in this industry, although I had one or two technical tips published.

For some years, I would see articles here and there about CorKey and then at some point I don't remember reading about it anymore. I probably thought about it a few times over the years when looking through old locksmith magazines and seeing some of the articles or advertisements about it, but for the most part, I had forgotten about it. Very recently, my memory was jogged. Greg Mango, my editor at *The National Locksmith*, contacted me earlier this year about a product called Maxcess that would be introduced at the ALOA show in Chicago. The name didn't suggest anything to me until Greg asked if I remembered a product called CorKey, and I told him that I remembered it very well. I explained that I had never actually seen the product up close, but that I remember vividly reading about it and had a general idea about how the product worked.

Greg told me that the CorKey system had been in wide use with the military for many years and had not been promoted to locksmiths for some time. He also indicated that it was about to be reintroduced to our trade under a new name. The new name was Maxcess Card Systems. It would be aimed at lock-

smiths, and would not come as fully assembled and coded units. That version would remain under the CorKey name.


Greg asked me to meet Bruce Sedley, the inventor of CorKey/Maxcess, at the ALOA trade show in Chicago this past July. Before the show, I received a packet of various articles published about CorKey from past years. I looked over all the printed information to refresh my memory and then looked ahead to meeting Mr. Sedley at the trade show. I was very much interested in finally getting to work on one of the units with my own hands.

At the trade show, they incorporated a makeshift classroom with their booth. In between showing the newly introduced Maxcess product to interested locksmiths at the booth, Bruce Sedley conducted mini product seminars throughout the show. He stood in between set up tables and instructed while seated locksmiths assembled the modules and coded the magnetic keys, (see *photograph 1*). I got my very first hands-on experience with Maxcess at one of those tables.

Not Your Typical Magnetic Card Key

Maxcess is essentially the same thing as CorKey, except in how it is packaged and sold. The fact that Maxcess was introduced as a new company, doesn't mean CorKey is out of business. Maxcess comes unassembled and uncoded for the locksmith to install and service. Maxcess code modules need to be assembled with their magnetic tumblers and attached to adapter kits modifying most standard type locksets to work with Maxcess key cards. The basic Maxcess code module and key can be adapted to work with a

Continued on page 22



**MY CODE
PROGRAM
DOES...**

**CODE
LOCATIONS**

MASTERKEYING

**KEY BLANKS
CROSS
REFERENCE**



Photograph 1.



Photograph 2.

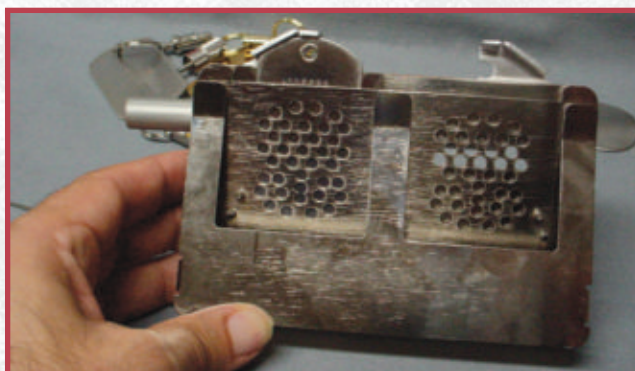


Photograph 3.

wide variety of locks, (*see photograph 2*). The magnetic card key used with CorKey/Maxcess is very different from the more typical magnetic bank ATM and hotel key cards.

A magnetic stripe that is encoded with data is used in conjunction with electronic locks found on many hotels or ATM units. Those types of devices require electrical power to operate. The Maxcess/CorKey locks, by contrast, are mechanical and require no electrical power to operate. What is magnetic about the keys is a series of magnetized spots that are magnetized as either north or south polarity.

A stainless steel blank Maxcess key, also known as a Maxcard, is inserted into what is called the "Stampen Fixture" to code the key, (*see photograph 3*). That is short for "Stamping Pen Fixture." The front side of a Maxcess key has an arrow that indicates the direction of insertion into the card slot of a code module. The arrow should face forward when looking at the front surface of the lock module. For coding the key, the stainless steel key should be inserted with the arrow facing away when inserting into the stampen fixture. Once the Maxcard is inserted, it can be moved to the right or left for coding spots on the key to north or south polarity. When slid to the left, it shows the pattern of holes in the fixture that overlays a Maxcard. The south polarity stamping pen extends outward to the left in back of the fixture, (*see photograph 4*).



Photograph 4.

A card stock template is used to identify which spots need to be magnetized, and to what polarity, (*see photograph 5*). The template fits into the holder to properly align the spots to correct positions on the Maxcard. The blue coded north pole stamping pen codes the positions on the right side of the template, (*see photograph 6*). The red coded south pole stamp pen magnetizes the spots on the left side of the template, (*see photograph 7*). All that is needed is for the tip of the stamping pen to touch within the punched holes for each side and the polarity will be set for all the spots. The Maxcard must be slid to the appropriate side when coding north or south polarity spots.

A special film called viewing film shown next to a Maxcard will allow us to see the spots that were magnetized, (*see photograph 8*). When placed over the top of a Maxcard the film will identify the locations of the magnetized spots, (*see photograph 9*). It will not, however, identify which are north or south. There is a device that is included (not shown) that will clear the surface of the viewing film and return it to a smooth green surface for reuse later.

Coding a Maxcess Code Module

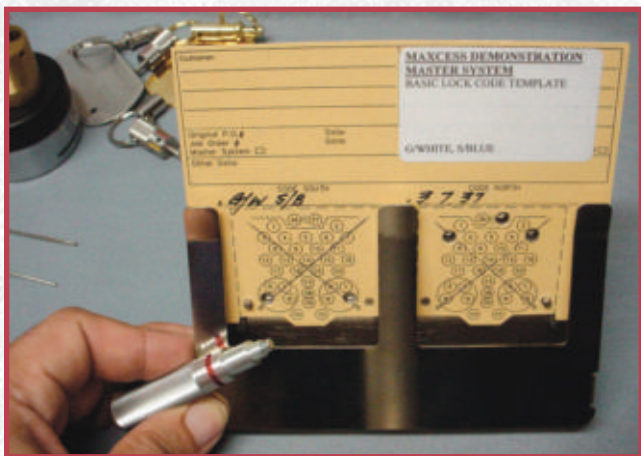
Normally the code modules will come without any magnetic tumblers preloaded. At the show for the demonstration, a few magnetic tumblers had been previously loaded, and disassembly and servicing



Photograph 5.



Photograph 6.



Photograph 7.



Photograph 8.

Continued on page 26

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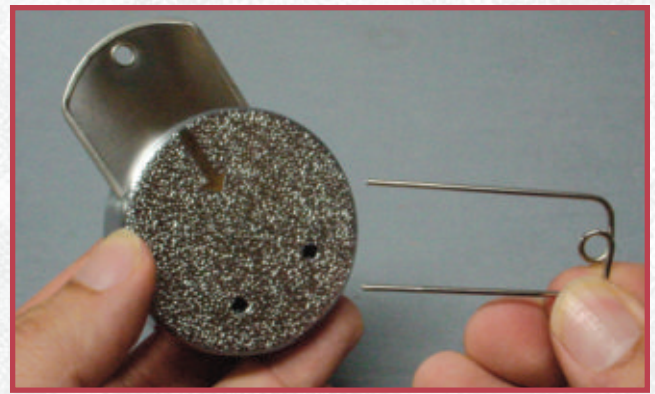
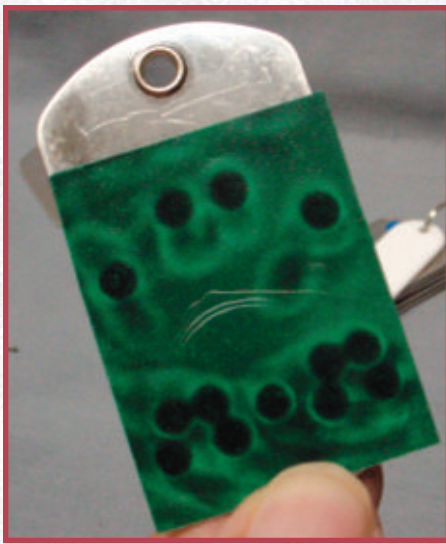
Our information manual has code information, key blanks, space and depth and more!

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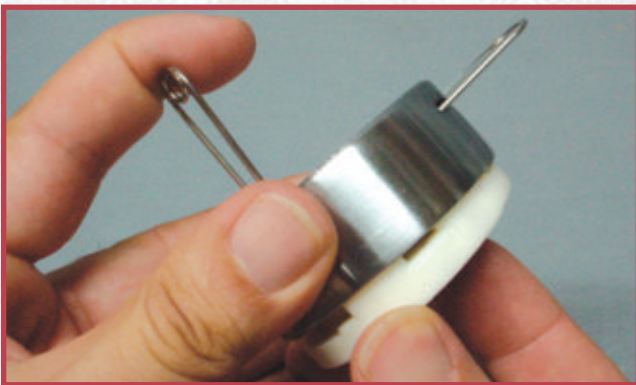
See openings from outside as well as inside the vehicle, nothing else like it anywhere!



Photograph 9.



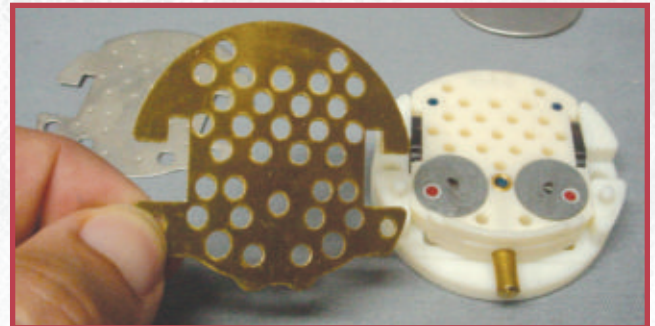
Photograph 10.



Photograph 11.



Photograph 12.



Photograph 14.

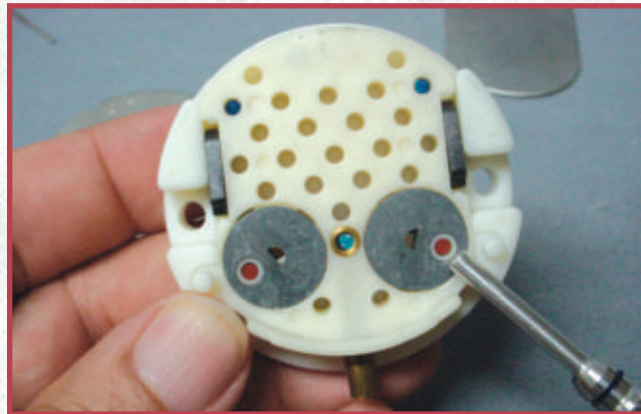
The raised dimples on the plate act to prevent the magnets from sticking to the plate if water were to enter the unit and freeze up, (*see photograph 13*).

The brass locking plate acts as the single shear line within a Maxcess code module, (*see photograph 14*). A correctly coded pattern of north/south magnetized dots will repel the magnetic tumblers in all their positions to allow the lock to open. It takes just one magnetic tumbler to be attracted by magnetic force to stay locked.

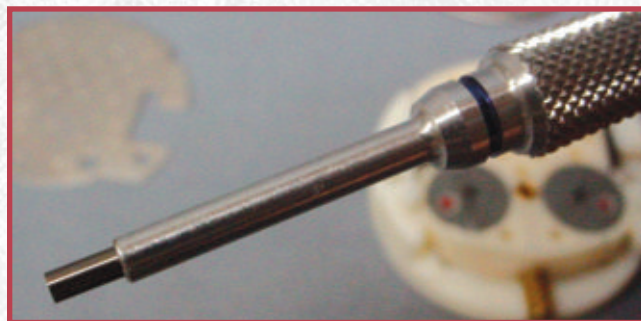
The plastic core has a series of tumbler holes that include two rotating positions pointed to by the magnetic pencil, (*see photograph 15*). The magnetic pencil is color coded like the stamping pens with blue and red stripes to identify the north and south sides of the tool. The ends of the magnetic tumblers are also colored blue and red to indicate the polarity of loaded tumblers.

were demonstrated. Before disassembly of that partially loaded module, a Max card should be part way inserted into the key slot to retain certain parts while the module is taken apart, (*see photograph 10*). A double pronged wire tool inserts into the two hole openings that are already in the face of the code module. That will be explained in more detail later, (*see photograph 11*). With the plastic core removed from the housing, the Maxcard holds the shield plate from falling out, (*see photograph 12*). The shield plate acts to attract all the magnetic tumblers, both north and south polarity to keep the unit locked when no key is in the lock. On top of the plastic core is a cover plate.

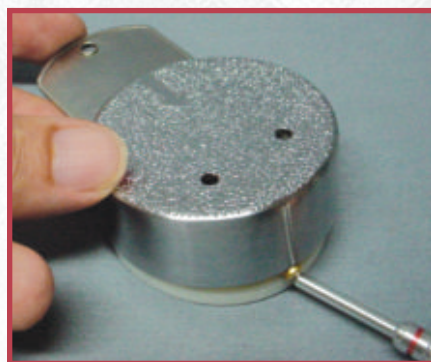
The magnetic pencil will pick up a tumbler automatically to the desired polarity by picking it up with either the blue or red coded ends, (*see photograph 16*). The paper template shown earlier to code the keys is also used to load the tumblers in the correct positions. The back side of the template is used to match north and south pole magnet positions to load into the core. After the



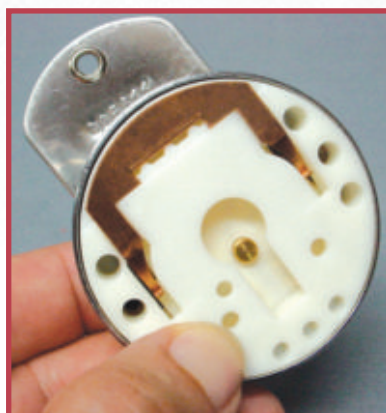
Photograph 15.



Photograph 16.



Photograph 17.



Photograph 18.

core is coded, the code module housing is placed over the core to hold everything in place, (*see photograph 17*). Be careful when turning it around that you hold the core in place so it doesn't fall out of the unit.

Assembling a MaxKit

Viewing from the back, you can see the plastic rear plate, (*see photograph 18*). A Maxcard has been inserted, but the unit has not been unlocked. A wrong key will not repel all the magnetic tumblers in all the positions and will not be able to be inserted any deeper than the key shown here. Tumblers protruding through the brass locking plate will prevent further downward motion for the key. If the key has the correct pattern, the north and south magnetized spots on the key will repel matching north and south magnetic tumblers within the module. The key will then insert further and the unit will unlock, (*see photograph 19*). Notice the raised brass nub that looks further down within what looks like an old fashioned keyhole. With the appropriate MaxKit, a code module can be adapted to operate many different types of locks.

To attach the driver unit for the specific lock cylinder adapter, a special pair of tweezers is used to remove the plastic rear plate, (*see photograph 20*). The back of the round metal driver unit shows where the raised spot in the core will engage it, (*see photograph 21*). Different adapter kits may have different types of drivers to trans-

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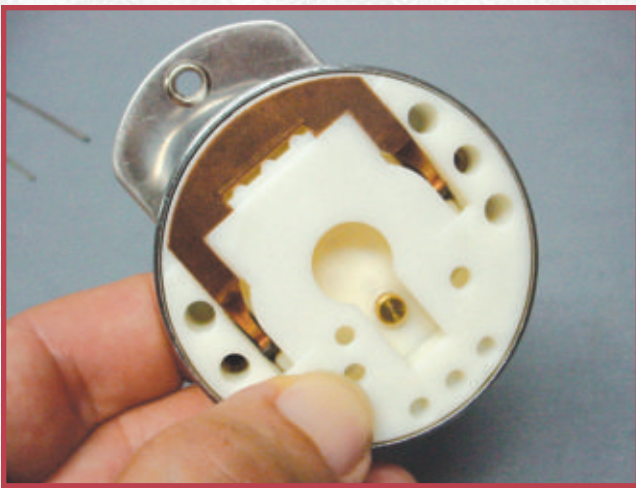


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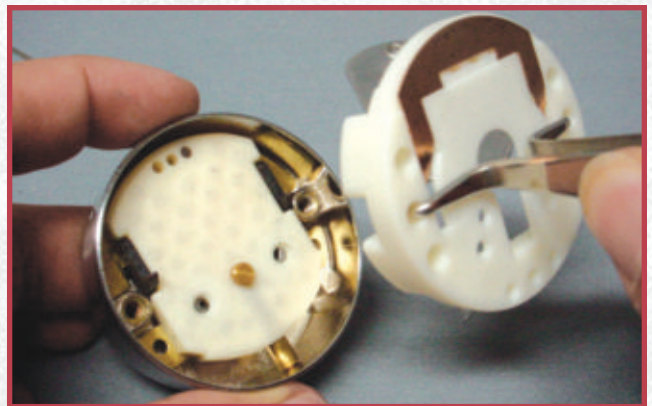
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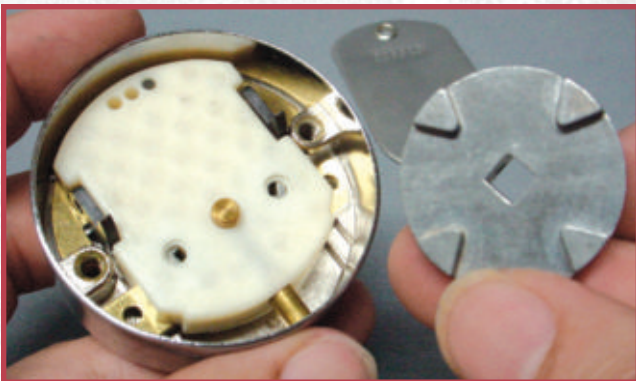
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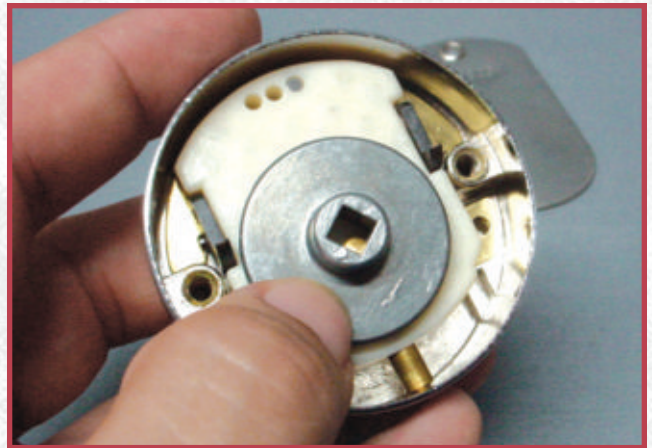
Photograph 19.



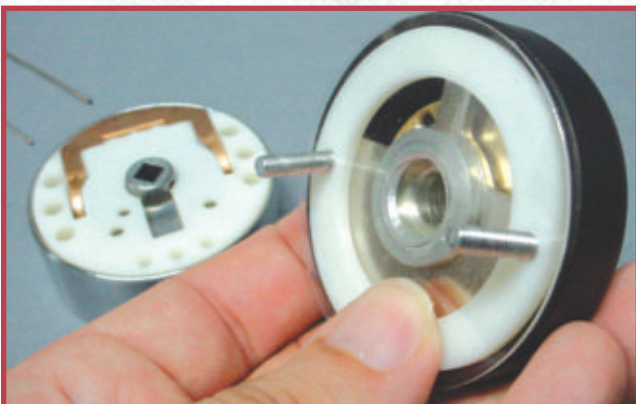
Photograph 20.



Photograph 21.



Photograph 22.



Photograph 23.



Photograph 24.



Photograph 25.



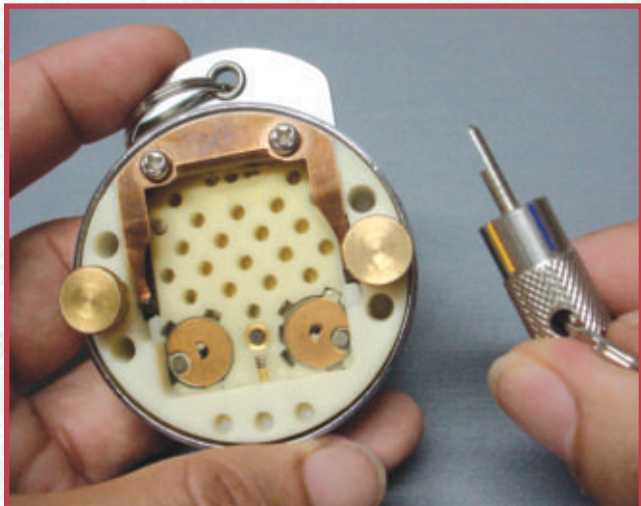
Photograph 26.



Photograph 27.



Photograph 29.



Photograph 28.



Photograph 30.



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Photograph 31.



Photograph 32.



fer rotating motion of the module to operate a particular kind of lock. The unit I was assembling was a mortise cylinder. The driver is turned around and set in the middle of the unit, (*see photograph 22*). The rear plate will need to be reassembled to hold the driver in place.

Part of the assembly for the mortise cylinder unit includes a shell with a weight, washers and spacers, (*see photograph 23*). Depending on what direction you attach it to the code module, the key slot will gravitate to either a position facing up or down. If used outdoors where rain and other elements might tend to deposit within the slot, you may want to install it for the slot to tend facing downward. The brass body of the mortise cylinder unit is next to attach, after attaching the shell, (*see photograph 24*). It is attached through two access holes in the back of the brass unit with an Allen wrench, (*see photograph 25*). Different MaxKits will not assemble exactly the same, but will work on a similar principle to adapt to a variety of different types of locks.

TriSec Recoding Without Disassembly

Earlier I had identified the tumbler holes in the core where the magnetic tumblers were positioned. I also mentioned two rotating tumbler positions. Maxcess/CorKey use a quick recoding method called TriSec where core disassembly is not required. Normally to rekey a Maxcess unit, you would need to remove the module and open it to remove and reposition north and south pole magnets.

I will use a group of four color coded Maxcards to demonstrate how the TriSec process works, (*see photograph 26*). The key cards are color coded blue, white, yellow and red. Actually there is one key with a black dot, too, but it is used for construction keying. Two specially modified Maxcard keys, called resetting keys, each have a hole in them, but at opposite sides of the key, (*see photograph 27*). These resetting keys are used to rekey a Maxcess unit without having to take the lock apart. Each of these keys comes with a resetting tool that allows rekeying without disassembling the lock module. The silver

key changes the code on the left side, while the gold key changes the code on the right.

The back side of a modified code module will demonstrate how the process works, (*see photograph 28*). The basis of the process involves the two rotating tumbler positions that I identified earlier. If you look closely at the magnetic tumblers, you may notice that they have been repelled to unlock the unit. The resetting key must fully insert to the unlock position for the hole to align properly and the resetting tool to fully insert into the hole. If you look closely at the end of the tool, you will see that it is specially shaped to act as a wrench to rotate the positions of the magnets in the two movable positions, (*see photograph 29*).

The blue key had been previously coded to the module. Looking at the position of the tool you'll see that the blue line is facing up, (*see photograph 30*). To change the code, rotate the tool until a different color stripe faces upward. I chose to switch it to yellow and if you look at the back of the unit now you will see that the magnet that was previously in the bottom right position is now in the top right position, (*see photograph 31*). Each of the Maxcards with color coded spots have magnetized spots in different positions. When I try the yellow coded key, it then unlocks the code module, (*see photograph 32*).

There is a lot more to Maxcess/CorKey than I have just explained. I am impressed with the concept and wish now that I had checked it out many years ago. It is a time proven technology with over 30-years in service proven applications. It is relatively simple to use and shouldn't take that much effort to become proficient with this locking system. I expect to explore it much further and ultimately find out which of my customers might be able to benefit from this unique card access system.

For more information about Maxcess, call 800-713-4823. Or check them out online at: www.maxcess-card.com. Circle 314 on Rapid Reply.

TNL

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Quick links to the keys you cut most often.



4-Way Jaws

Holds an optimal number of different blanks.



Decode Keys

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Key Blank Cross Reference

View key blank alternatives from the most popular manufactures



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2004 TOYOTA 4-RUNNER

Part 2

by Brook Francisco & Michael Hyde

In the last installment we covered the ignition lock and opening procedures. This month we conclude with the door lock, trunk lock and glove box lock.

Door Lock Removal



1. Once the vehicle is unlocked, the driver's side door lock is easily removed. There is a key code stamped on this lock, so this is the easiest way to generate keys for this vehicle.



2. On the edge of the driver's door even with the lock, you will see a black rubber grommet.



3. Remove this grommet to reveal a Torx 27 screw.



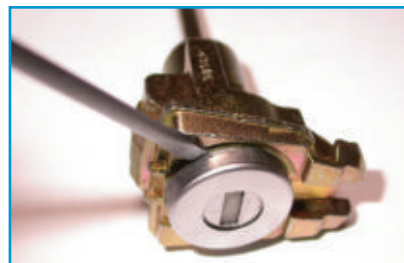
4. After loosening this screw, the cylinder can be removed.



5. The door lock cylinder removed.



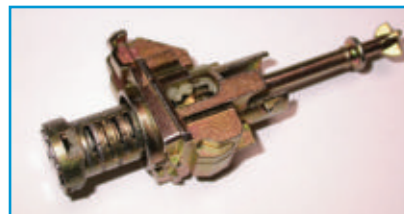
6. The key code is seen easily as 66677.



7. To disassemble the door lock, begin by removing the outer plastic trim piece and gently prying off the face cap with a small flat-blade screwdriver. The face cap will be re-used.

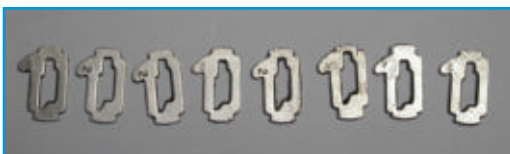


8. Next, remove the spring and "C" clip at the rear of the cylinder.



9. The cylinder can now be removed through the front of the housing. A working key is NOT needed to disassemble this lock. This lock contains tumblers in positions 2-10. Remember that Toyota wafers are stamped **OPPOSITE** of their actual cut.

10. The wafers I pulled from the lock were stamped: 32231243. To do the fill in InstaCode, I entered ??23324312 (? = Unknown Cut). InstaCode's Cutting



Tree revealed 9 different possibilities that could exist, but only two keys total would be needed for the full progression. A.S.P. part number for this pinning kit is A-30-113.



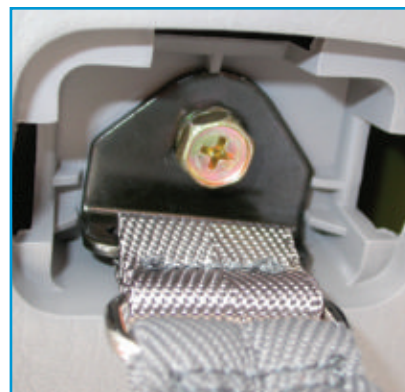
11. The door lock and all components.

Trunk Lock Removal and Disassembly



12. The trunk lock is located in the plastic trim of the rear tailgate.

13. The trunk lock on the 2004 4-Runner is easy to remove, although there is no code stamped on this lock. The lock contains the same tumbler positions as the door (2-10) so if you are generating a key from this lock you will need to follow the progression above. Notice the electronic tailgate latch. There are no mechanical parts to this latch.



14. To remove the tailgate lock cylinder, begin by removing the 10mm bolt that secures the pull-strap. You can now remove the panel by popping out the plastic panel clips.

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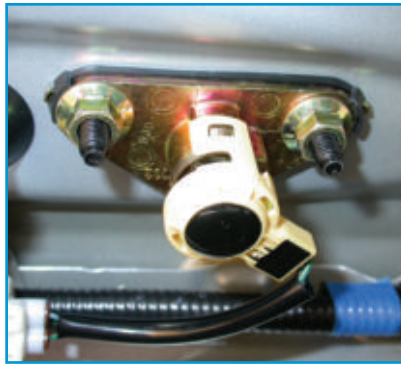
Copy or clip this coupon and send with payment to:

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OR fax credit card orders to (630) 837-1210



15. Next, pull back the thin plastic internal cover.



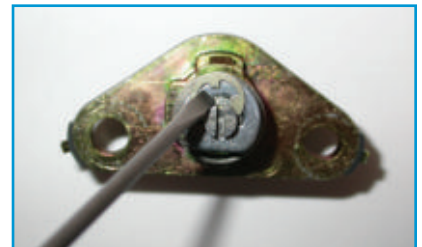
16. You can now see the tailgate lock cylinder. Notice there is no linkage for this lock, the latch is controlled electronically.



17. Next remove the tailpiece switch off the back of the lock and then remove the two 10mm bolts.



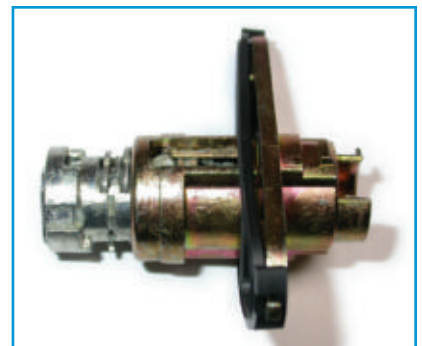
18. The tailgate lock removed.



19. Remove the "C" clip on the back of the lock.



20. Next, gently pry off the face-cap. The face-cap will be re-used.



21. The plug will now come out the front of the lock.



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22. The tailgate lock and all components.



Glove-Box Lock Removal and Disassembly



23. The glove-box lock is easily removed and disassembled. There are only 4 tumbler positions found in this lock, so it is pretty useless for any kind of progression.



24. There are two Phillips screws that hold in the glove-box lock. Remove the screws and the lock will come out.



25. To disassemble the lock, carefully pry the two plastic halves apart.



26. Next remove the "C" clip on the back of the cylinder.

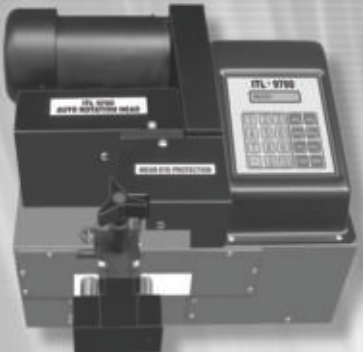


27. The plug will now come out the front of the lock assembly.



28. The glove-box lock and all parts. The top tumbler pictured is the valet cut.

ITL PRESENTS




ITL 9700

The Industrial ITL9700 Code Machine

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Bi Axial 6 pin.....	16 seconds
- ▶ New Medeco Autoswing head option.




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ITL 9000 Computer Key Machine

- ▶ Up to 800 built-in manufacturer depths and spaces.
- ▶ Works with most popular Master key systems.
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- ▶ Repeatable accuracy of 1/1000th inch.
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- ▶ Cuts Medeco™ High Security keys with angled cuts.

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ITL 950C

ITL 950C Computer Code Machine

- ▶ Windows™ interface for built in Masterkey system printing and saving.
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- ▶ Both 12 volt and 120 volt usage standard.
- ▶ One cutter emulates all flat widths.
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Programming New Keys with the T-Code

The following dealer is required, part # 89785-60160. This is a Type 2 Immobilizer system for the T-Code. Type 2 factory keys have a small dot stamped on the blade.

NO after-market keys like JET or ILCO will work for this model type. Only factory originals will work from the Toyota dealer.

Select Lexus/Toyota from the T-Code menu.

VEHICLE SELECTION

MITSUBISHI

NISSAN

SUZUKI

LEXUS/TOYOTA

V.W./AUDI GROUP

Using the T-Code you can reset the Immobilizer system if all keys are lost or if you only have a valet key.

DIAGNOSTIC MENU

RESET IMMOBILISER

PROGRAM KEY

ERASE KEYS

4

CODE SERIES: 50,000-69,999

NOTE: Transponder Equipped models will require a new or re-flashed ECU (Engine Control Unit) or may be re-set with the T-Code or CodeSeeker through the OBD2 port. Most ECU's are located behind the glove box door assembly and reads "Engine Control" on it. It is a silver box 8" x 10" and is 1½" thick.

Method #1 Check owner's manual for codes, written in by the dealer.

Method #2 Remove passenger door cylinder and read code stamped on lock.

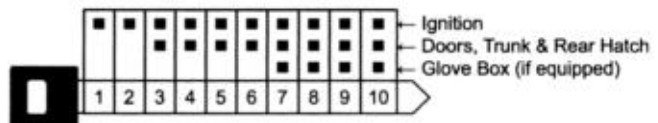
Method #3 Use the Toyota New TOY5 Determinator™ 

Method #4 Disassemble door cylinder or trunk cylinder and decode wafers to make master key.

The tumblers are stamped with the reverse of the actual depth.
Example: 1 is a 4 and visa-versa

The Trunk/Rear Hatch & Glove Box have a tumbler that would be considered the 11th position that rides on the tip to prevent a Valet key from working.

Code Series: 50,000-69,999



<div>H</div> CODE SERIES: 50,000-69,999											
Bow										Tip	Cut to Cut: Varies
SPACING											
1	2	3	4	5	6	7	8	9	10		
.846	.791	.709	.654	.571	.516	.433	.378	.295	.240		
Bow										Tip	
FRAMON SPACING											
1	2	3	4	5	6	7	8	9	10		
.404	.459	.541	.596	.679	.734	.816	.871	.954	1.009		

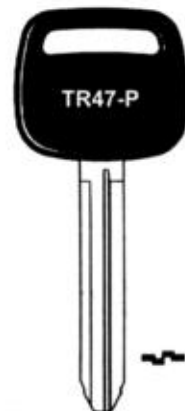
DEPTHS
1 = .324
2 = .298
3 = .273
4 = .247

TR47-P

Key Blanks:		ILCO: X217, TR47, TOY43AT4		SILCA: TOY43	
Reed Codes:		---		HPC 1200 CM XF307	
Curtis Clipper:		Cam: N/A	Carriage: N/A	ITL MFG: N/A	
Pak-A-Punch:		PAK-C7		M.A.C.S.: 2	

NOTES: FRAMON— Lay spacing clip flat against left side of vise, Key aligned using left side of vise/spacing clip.

DEPTHS
1 = .324
2 = .298
3 = .273
4 = .247



CODE LOCATIONS

1. All models, the passenger door cylinder will have a code stamped on it.



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Card Coding



Pinning a Code Module



Changing Lock Codes

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Circle 243 on Rapid Reply



by
Adam Weinraub

Chevrolet Equinox & Uplander

CAR OPENING

Chevrolet • Equinox

Year: 2005 -

Linkage: Horizontal

Pick: CCW DSO

Tool: AO-39 "Double Slide Tool"

PREFERRED OPENING METHOD

This is a new model 4 door crossover SUV for 2005. Replaces the Tracker.



Tool:
AO-39
"Double
Slide
Tool"

- 1.** Insert a Pump wedge at 14" from the rear edge of the window glass of the rear passenger door. Inflate wedge.
- 2.** Insert an inspection light into the door cavity at 12" from the rear edge of the window glass and identify the 2 horizontal rods. The upper horizontal rod is the lock rod.
- 3.** Insert the small end of an AO39 "Double Slide Tool" at 8" from the rear edge of the window glass, tip facing rearward. *(Photo 2)*
- 4.** Lower the AO39 8" into the door cavity. Rotate the tool 45° clockwise and lower



Chevrolet • Equinox

the tool 1" to position the tip of the tool over the upper horizontal rod. Twist the tool clockwise to bind the rod.

- 5.** Slide the horizontal rod forward to unlock the door. *(Photo 3)*

ALTERNATE OPENING METHOD

- 1.** Insert a pump wedge at 10" from the rear edge of the window glass of the front passenger door. Inflate wedge.
- 2.** Insert an AO36 "MCOT-Long Tool" at 8" from the front edge of



Chevrolet • Equinox Photo 2.



Chevrolet • Equinox Photo 3.

the window glass, tip facing forward.

3. Lower the AO36 11" into the door cavity and rotate beneath the bottom edge of the window glass. Deflate wedge.

4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool 45° counterclockwise and position the tip of the tool on top of the electric lockunlock button.

5. Push the top portion of the electric lock-unlock button to unlock the door. (Photo 4)

Chevrolet • Uplander

Year: 2005 -

Linkage: Horizontal

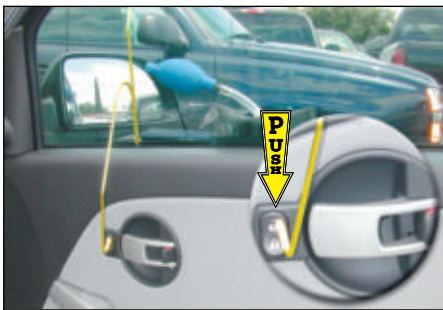
Pick: CCW DSO

Tool: AO-36 "MCOT-Long"

PREFERRED OPENING METHOD

This is a new model Minivan for 2005, replaces Venture. Front doors have a black plastic shield covering the horizontal rods, which makes a cavity opening method more difficult. Same as Buick Terraza, Pontiac Montana SV6 & Saturn Relay.

1. Insert a Pump Wedge at 11" from the front edge of the window glass of the front passenger door. Inflate wedge.



Chevrolet • Equinox Photo 4.



**Tool:
AO-36
"MCOT-
Long"**



Chevrolet • Uplander



Chevrolet • Uplander Photo 2.

2. Insert an AO36 "MCOT-Long Tool" at 7" from the front edge of the window glass, tip facing forward. (Photo 2)

3. Lower the AO36 10" into the door cavity. Rotate the tool beneath the bottom edge of the window glass. Deflate wedge.

4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool 135° counterclockwise and position the tip of the tool in front of the lock-unlock button. (Photo 3)

5. Rotate the lock-unlock button rearward to unlock the door.

ALTERNATE OPENING METHOD

1. Insert a Pump Wedge at 11" from the front edge of the window glass of the front passenger door. Inflate wedge.

2. Insert an AO32 "MCOT-Wide Extra Long Tool" at 7" from the front edge of the window glass, tip facing forward.

3. Lower the AO32 10" into the door cavity. Rotate the tool beneath the bottom edge of the window glass. Deflate wedge.

4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool 90° counterclockwise and position the tip of the tool on top of the electric lockunlock button.

5. Push the electric lock-unlock button down to unlock the door. (Photo 4)



Chevrolet • Uplander Photo 3.



Chevrolet • Uplander Photo 4.

This material was excerpted from "The Best Damn Car Opening Manual Period!" by PRO-LOK. For more information and availability check with your distributor or Phone: 714-633-0681; Web: www.PRO-LOK.com

Code Cutting Machine Quick Reference Chart

Supplying all your code-cutting needs
with semi-automatic, computerized and
hand-held equipment from some of the
biggest names in the business. One size
doesn't fit all, but one is sure to fit
your needs.



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
A-1 Security Mfg. Corp. 804-359-9003 www.demanda1.com	PAK-3	Manual Punch	N/A	Most Domestic & Foreign Automotive, I/C Core, Schlage, Kwikset, Master Padlock	N/A	Handheld



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Barnes Distribution 216-430-5522 www.barnesdistribution.com	PC+ Flash	Computerized	Curtis	N/A	N/A	23" x 20" x 14"



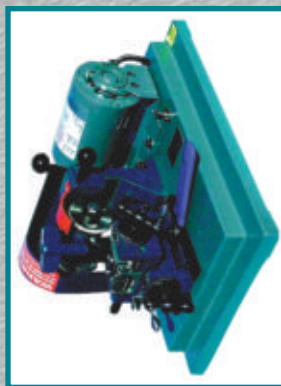
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Barnes Distribution 216-430-5522 www.barnesdistribution.com	BD Laser	Computerized	InstaCode	N/A	N/A	12" x 15" (Machine) 9" x 10" x 6" (Console)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Bianchi USA, Inc. 440-716-8006 www.bianchi1770usa.com	BD Laser Bianchi Part #B994	Computerized	Exclusive Codes	N/A	N/A	13-7/8 H x 11-5/8 W x 14-1/4 D (Machine) 5-1/8 H x 9-1/2 W x 10 D (Console)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Code Pro Manufacturing 807-628-8100 www.codepro4500.com	4500 Industrial	Computerized	Compatible with Blackhawk, Treskat and Genericcode (DOS)	N/A	1/3 HP, 2.2A	10 H x 17-3/4 W x 12 D (Machine) 10 x 17-3/4 x 12 (Bench)



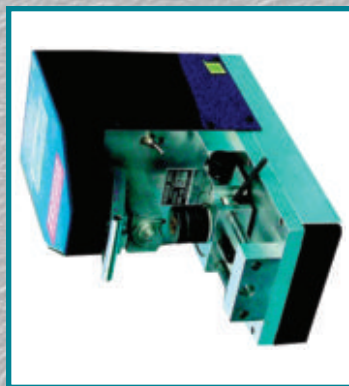
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Framon Mfg. Co., Inc. 989-354-5623 www.framon.com	Framon #2 Code Machine	Manual Code	Genericcode ME with Purchase	N/A	1/6 HP	10-1/2" W x 17" D x 8" H (Machine) 10-1/2" W x 17" D x 8" H (Bench)



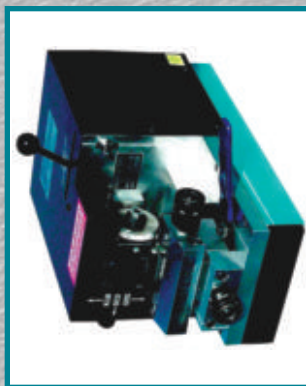
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Framon Mfg. Co., Inc. 989-354-5623 www.framon.com	Framon #2-D Code Machine	Manual	Genericcode ME with Purchase	N/A	1/6 HP	13" W x 13" H x 14" D (Machine) 13" W x 13" H x 14" D (Bench)



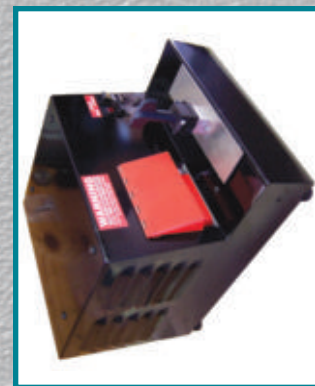
Company Name: <i>Framon Mfg. Co., Inc.</i> 989-354-5623 www.framon.com	Model Name or Number: DC-300	Type of Machine (punch, manual or computerized): Automotive Manual	If computerized, what brand computer codes are included: N/A	If Punch, what punch cartridges are available: N/A	Motor Size (if applicable): 1/6 HP	Machine Size: 16" W x 10-1/2" D x 6-1/4" H (Machine) 16" W x 10-1/2" D x 6-1/4" H (Bench)
----------------------------------------------------------------------------------------	--------------------------------------------	--------------------------------------------------------------------------------------	--------------------------------------------------------------------------------	----------------------------------------------------------------------	--------------------------------------------------	-----------------------------------------------------------------------------------------------------------------



Company Name: <i>Framon Mfg. Co., Inc.</i> 989-354-5623 www.framon.com	Model Name or Number: TKM-100	Type of Machine (punch, manual or computerized): Manual Tubular	If computerized, what brand computer codes are included: N/A	If Punch, what punch cartridges are available: N/A	Motor Size (if applicable): 1/6 HP	Machine Size: 10" W x 16" D x 8" H (Machine) 10" W x 16" D x 8" H (Bench)
----------------------------------------------------------------------------------------	---------------------------------------------	-----------------------------------------------------------------------------------	--------------------------------------------------------------------------------	----------------------------------------------------------------------	--------------------------------------------------	----------------------------------------------------------------------------------------------



Company Name: <i>Framon Mfg. Co., Inc.</i> 989-354-5623 www.framon.com	Model Name or Number: KX-1	Type of Machine (punch, manual or computerized): High-Speed Cylinder Manual	If computerized, what brand computer codes are included: N/A	If Punch, what punch cartridges are available: N/A	Motor Size (if applicable): 1/6 HP	Machine Size: 13"W x 13" D x 14" H (Machine) 13"W x 13" D x 14" H (Bench)
----------------------------------------------------------------------------------------	------------------------------------------	--------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------	----------------------------------------------------------------------	--------------------------------------------------	----------------------------------------------------------------------------------------------



Company Name: <i>Framon Mfg. Co., Inc.</i> 989-354-5623 www.framon.com	Model Name or Number: FRA-2001	Type of Machine (punch, manual or computerized): Computer Driven	If computerized, what brand computer codes are included: Genericcode ME	If Punch, what punch cartridges are available: N/A	Motor Size (if applicable): 1/12 HP	Machine Size: 14"W x 15" D x 11" H (Machine) 14"W x 15" D x 11" H (Bench)
----------------------------------------------------------------------------------------	----------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	----------------------------------------------------------------------	---------------------------------------------------	----------------------------------------------------------------------------------------------

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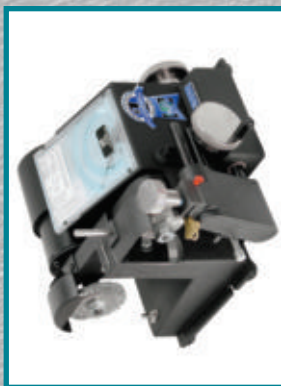




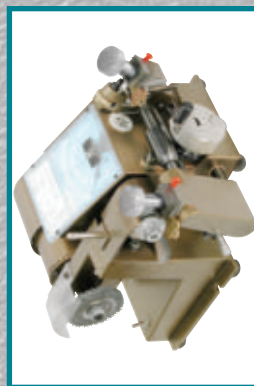
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	Blue Shark™ 123 Shark	Computerized	Complete Code Database Built-In HPC's MasterKing or KeyTrail Software FREE	N/A	120VAC 60Hz 1/6 HP 4.7A (also available in 240VAC)	16.25" W x 16.25" D x 23" H (Machine) 24" W x 20" D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	Codemax® No. 1200MAXAA	Computerized	Over 900 Depth & Space Charts Incl. on Internal Memory, Computer Interface, Keypad Input, HPC's Software FREE	N/A	120VAC 60Hz 1/6 HP 4A (also available in 240VAC)	12" W x 14" D x 14" H (Machine) 20" W x 14" D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	The Original Blitz™ No. 1200CMB	Manual	Incl. 150 Code Cards, HPC's CodeSource Lite Software FREE	N/A	120VAC 1/6 HP 3.5A (also avail. in 240VAC 12VDC & ACDC)	12" W x 14" D x 9" H (Machine) 20" W x 14" D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	Switch Blitz™ No. 1233CMB	Manual/Duplicator: Incl. 150 Code Cards, HPC's CodeSource Lite Software FREE	N/A	N/A	120VAC 1/6 HP 3.5A (also avail. in 240VAC, 12VDC & ACDC)	12" W x 14" D x 9" H (Machine) 20" W x 14" D (Bench)

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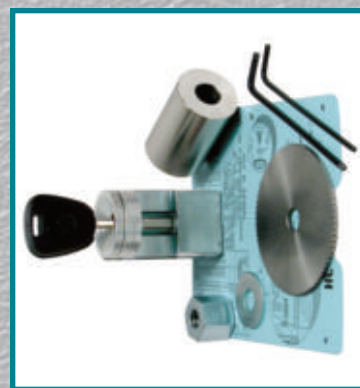
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	The Punch Machine™ No. 1200PCH	Manual: Incl. 101 Code Cards, HPC's 3 Punch & Die Set & CodeSource Lite Software FREE	N/A	N/A	N/A	9" W x 12" D x 6-1/2" H (Machine) 9" W x 12" D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	Tubular Duplicode™ No. 747XU	Manual Tubular Key Machine	N/A	N/A	115VAC 1/15 HP 2A (also avail. in 240VAC)	16" W x 4-1/2" D x 4-1/2" H (Machine) 20" W x 6" D (Bench)



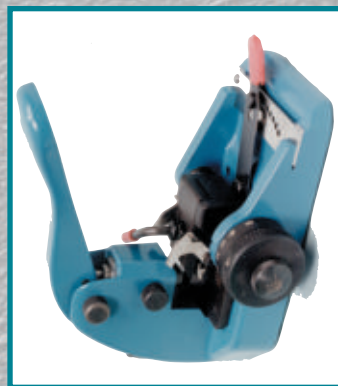
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	Pocket Cut-Up™ No. TKM-90	Manual Tubular Key Machine	N/A	N/A	No Electricity Required	2" D x 4" L



Company Name:	Model Name or Number:	Adapts to Which Machines?	Adapter Includes:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
HPC, Inc. 847-671-6280 www.hpcworld.com	Tibbe Key Adapter Kit	Blitz™ Switch Blitz™ Blue Shark™	Adapter, Slotter-Cutter Code Card, Allen Wrenches Tubular Key Adapter Kit	N/A	N/A	N/A



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Kaba Ilco Corp. 252-446-3321 www.kaba-ilco.com	Ultracode	Electronic	On-Board Codes, Silca Brand	N/A	110-1/4 HP	19.7 W 19.7 D x 16.5 H (Machine) 19.7 W x 19.7 D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Kaba Ilco Corp. 252-446-3321 www.kaba-ilco.com	MK1 Exacta	Punch	N/A	Various Automotive	N/A	5 W x 7 D (Machine) 5 W x 7 D (Bench)



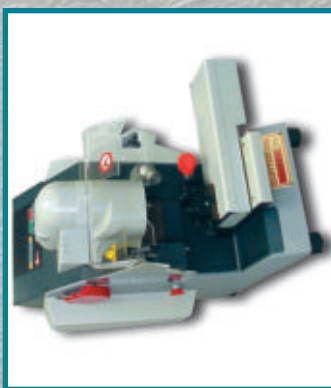
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Kaba Ilco Corp. 252-446-3321 www.kaba-ilco.com	MK2 Exacta	Punch	N/A	Various Commercial	N/A	5 W x 7 D (Machine) 5 W x 7 D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Kaba Ilco Corp. 252-446-3321 www.kaba-ilco.com	MK3 Exacta	Punch	N/A	Kwikset, Kwikset/Titan	N/A	5 W x 7 D (Machine) 5 W x 7 D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Kaba Ilco Corp. 252-446-3321 www.kaba-ilco.com	Triax—e code	Electronic	On Board Codes, Silca Brand	N/A	110V 60Hz	16.7 W x 20.3 D x 19.7 H (Machine) 16.7 W x 20.3 D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Kaba Ilco Corp. 252-446-3321 www.kaba-ilco.com	Quattracode	Electronic	None Supplied, but Required, Silca Codes	N/A	110V 60Hz	15.4 W x 20.9 D x 22.5 H (Machine) 15.4 W x 20.9 D (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Kaba Ilco Corp. 252-446-3321 www.kaba-ilco.com	Universal II	Manual, Card Type	N/A	N/A	110V, 1/4 HP (capacitor start type)	12W x 14 D x 10 H (Machine) 12 x 14 (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Locksmithing, Unl. LLC 302-575-0993 www.sargentpunch.com	BP201-SGT	Punch	N/A	N/A Dedicated to Sargent Only	N/A	12-1/2 H x 4-1/2 W x 8-1/2 D (Machine) 12 1/2 x 12 incl. Code Bar (Bench)

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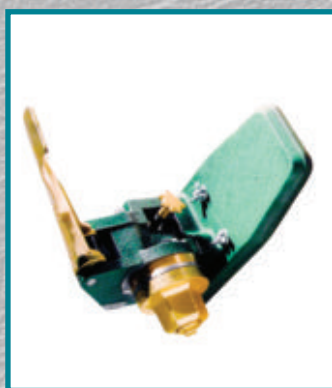
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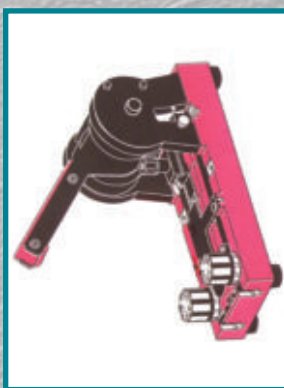
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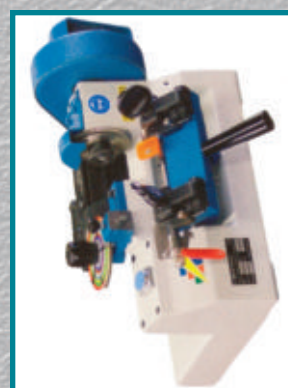
Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Locksmithing, Unl. LLC 302-575-0993 www.sargentpunch.com	GP201-SGT	Punch	N/A	N/A Dedicated to Sargent Only	N/A	12-5/8 H x 6-3/4 W x 8 D (Machine) 11- 1/8 x 5-1/16 (Bench)



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Locksmithing, Unl. LLC 302-575-0993 www.sargentpunch.com	Rytan	N/A	N/A	N/A	N/A	N/A



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Locksmithing, Unl. LLC 302-575-0993 www.sargentpunch.com	SGT-5179	Punch	N/A	Punch, Die & Card for HPC 1200PCH Only	HPC 1200PCH	HPC 1200PCH



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
MBA USA, Inc. 859-887-0496 www.mbausa.com	Börkey 972	Manual	N/A	N/A	N/A	20" x 16"



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Mul-T-Lock USA Inc. 973-778-3222 www.mul-t-lockusa.com	KCM-Key Machine-- Compact II	Manual Proprietary	N/A	N/A	Single Phase 245W	9.5/8 W x 14 D x 12-7/8 H



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
Mul-T-Lock USA Inc. 973-778-3222 www.mul-t-lockusa.com	KCM-Key Machine Full	Manual Proprietary	N/A	N/A	Single Phase 245W	9.84 W x 15.35 H x 11.8 D



Company Name:	Model Name or Number:	Type of Machine (punch, manual or computerized):	If computerized, what brand computer codes are included:	If Punch, what punch cartridges are available:	Motor Size (if applicable):	Machine Size:
PRO-LOK 714-633-0681 www.pro-lok.com	BP 201 Blue Punch	Punch	N/A	Dedicated	N/A	4 W x 12 D x 8 H

ALOA 2005

Convention REVIEW



by Bob Sieveking

This years ALOA Convention was held in Rosemont, IL, where thousands of locksmiths showed up for education and product information.



1. Early arrivals at the Chicago ALOA convention avoided the press of the crowd. Approximately 3,500 people attended the 2005 ALOA convention. There were over 2,100 ALOA locksmiths and approximately 1,400 exhibitor or other persons admitted to the show floor. Approximately 170 exhibitors displayed their products.



2. A world map, posted at the convention entrance, allowed visitors to show how far they traveled, to visit the ALOA convention. This map illustrates the truly international draw of the ALOA convention. There were 144 international attendees, from 35 different countries, represented at the convention. There were: 48 from Canada, 12 from Japan, 9 from Korea, 8 from Australia and 7 from Spain. Other countries had less than five representatives. All of the states of the United States were represented among the attendees. Illinois, of course, led the count with 376 attendees, followed by Wisconsin, Ohio, Indiana and Texas.



3. Conventioneers were welcomed to the 2005 ALOA show floor by the IR (Ingersoll-Rand) pavilion, at the entrance to the hall. (Left to right) Terry Lehn, Anne Marie Maubach and Brad May offer packaged "shop towels" to visitors, advertising their new LCN "No Leak" door closer technology.



4. Schlage Marketing Manager; Yong Lacy (left) and Schlage Master Key Manager; Monte Salway (right) enjoy a brief respite from answering technical questions of the many locksmiths that stopped by Schlage Lock area of the IR pavilion.



5. Education was a theme that pervaded the ALOA convention and it is illustrated here by Business Development Manager; Mark Ayers, as he teaches one of the many Power Point presentations on IR products. Individual and class instruction was carried out in many of the exhibitor booths.

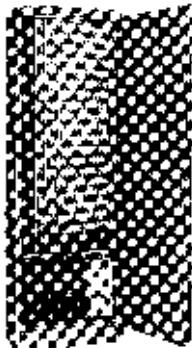


6. HPC Vice President of Sales; Al Blitstein takes a moment with his daughters Lana (left) and Jessica (right) as fellow HPC staffer David Reinhard (far right) demonstrates and carefully explains a technical concept to a fellow locksmith.

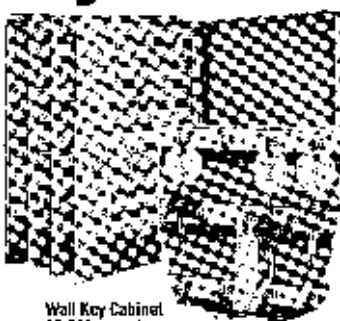


7. A quick stop at The National Locksmith exhibit, finds friendly smiles and informative conversation. Right to left: Don Probasco, Chandra Smith and Sheila Campo look on as author Sara Probasco, publisher Marc Goldberg and InstaCode expert Tania Buddle demonstrate InstaCode, answer book questions and generally enjoy meeting locksmiths and fielding questions.

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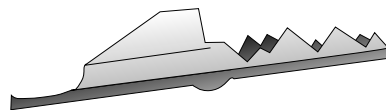
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8. InstaCode and books on disc were popular items on The National Locksmith tables. Tania (left) looked away from her laptop for an instant, and I snapped this photo. Marc Goldberg was demonstrating and gleaning InstaCode technical pointers from John McMullen, InstaCode programmer and author of InstaCode and other specialty locksmith programs.



9. Dennis Welch, of Doyle Security Products, explains the importance of the Fast Facts auto guide to fellow locksmith, Ryan Krakowsky. Doyle Security Products was the first dealer to receive the 2005 Fast Facts automotive key guide at the ALOA convention.



10. Peterson Locksmith Tools staff remained busy throughout the show. In the booth, from left to right, Harry Sher explains the advantage of some tool as Ken Persson notices the camera, and Cole Parrotta busily writes another order.



11. HL Flake founder Dan Floeck, paused here for a quick photo.



12. Barnes Distribution Curtis Key Division E-Commerce Marketing Manager Alex Knight (left) and Product Specialist Tom Morse (right) demonstrated the advantages of the "BD Lazer" automatic high security key machine.



13. Hurd Lock Corporation Sales & Marketing Manager Walter Socha (left) and General Manager Chris Edwards exhibited and demonstrated the Hurd automotive lock products.

Continued on page 56



14. National Auto Lock introduced the 2005 Auto Smart auto guide at the ALOA convention.



15. JLM Wholesale was represented by (left to right) Outside Sales Manager Mary Hester and Jennifer Miller, Bekki Brodsky and Scott Hammons. JLM specializes in electronic door security products.



16. Car opening manuals and the Blue Punch were hot topics in the Pro-Lock booth. (Left to Right) Jeremy Weinraub, Adam Weinraub and Marshall Daugherty fielded technical questions and gave technical assistance on tool applications.



17. Ricky King (left) and Corporate President Frank McCarthy (right) represented A1 Security Manufacturing. Pak-A-Punch, the "Green Machine" Best Combinator and Specialty automotive transponder key blanks were hot items for A1 this year.



18. Dugmore Duncan Director of Sales Ed Minishak (left) and Northeast Region Sales Technical Support Manager Skip Reid answered questions and dispensed good will and sound advice on Sargent, Corbin-Russwin, Yale, and Norton products.



19. The Medeco exhibit was the focus of much attention, as convention locksmiths were invited to have their photo made by professional photographer Greg Vaughn. The idea of Marketing wizard Tom Zuckerwar, it was the big hit of the show. Educational classes also welcomed locksmiths to increased knowledge of the Medeco security products.

20. Locksmiths that visited the Medeco™ exhibit were treated to a professional photo impressed onto the cover of "Professional Locksmith Magazine." Here, Mike Bruder, of Eversham Lock and Safe, proudly displays his personal copy of the Medeco™ trade magazine.



21. The boys at Mul-T-Lock stayed busy throughout the show. Here, locksmith Ed Fitzgerald discusses product changes with Territorial Managers Orin Avigdor and Ken Hockensmith. I had opportunity to attend a Mul-T-Lock class this year, presented by Midwest Territory

Manager Roy Miller and National Tech Support Manager Sean McNorton. The class presentation was professional in every aspect.

22. (Right to Left) Technical Support Representative Jerry Chaplik, B. Jurdi, Andrea Farinati, and Marketing Coordinator Erin M. Kocab displayed and represented the Bianchi USA. Bianchi produces some very nice key cutting machinery.



23. Lockmasters dedication to professional training carried onto the show floor with this training tent. Steve Young was just one that presented short classes throughout the day.

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24. The training tent where Steve Young was delivering his relaxed presentation of “wafer lock reading.” Where have I seen this material before? Keep up the good work Steve.



25. Outside the training tent, (right to left) Kevin Moors and Randy Mise demonstrated specialty tools and gave hands-on training to fellow locksmiths.



26. LAB National Accounts Manager Thomas Martucci explains the advantages of the LAB Interchangeable Core capping fixture to locksmiths Bradford and Gerra Lewis.



27. GE Access Point Infrastructure Security, which many will recognize as Supra, was represented by Account Manager Debby Bradish. Here, she is showing their new keyless access key box. A press button combination lock secures the multi-hook key storage box.



28. Comp-X Security Products had all the horsepower at the convention. (Left to Right) Distribution Manager Galvao, Vice President of Sales & Marketing Mike Kavulic, Sales Manager Mitch Mlynarczyk, Director of National Accounts C. Craig Lambert, and Director of National Accounts Larry Springgate took time to pose for this photo.



29. Corporate Safe Specialists hosted an ALOHA photo for conventioners. Locksmiths and guests were invited to have their photo taken with two beautiful ALOHA girls, and get a free Leigh and Polaroid photo.



30. New to the ALOA convention, were (left to right) Julia and Vincent Gan, of AOBA Security Technology Pte, Ltd. Vincent demonstrated a unique double-sided instantly rekeyable lock cylinder. The concept is not altogether new, but the mechanics and utility of this product demand further study.

31. Professional Business Products, supplier of specialty printed products for the locksmith, was represented by (left to right) Kristy Emerick and Denise Knurick. Stickers, Adhesive Labels, Cylinder Labels, and Ticket Books and Specialty Locksmith Forms are their "Stock-in-Trade." Smiles and congeniality were complimentary at the show.




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32. High Tech Tools owners Miriam and Tony Vigil stayed busy throughout the show. High Tech specialty auto opening tools were hot items, as always.



33. Scorpion Locks representative Mike Merritt demonstrated a unique high security sidebar concept this year. The cylinder key employs a side milling to access a six-bit sidebar configuration and is available in small format removable core and standard cylinder formats.



34. The Locksmith Store was represented by automotive lock "gurus" (left to right) Josh, Jack, and Tom Swiderek. These are the faces, behind the friendly knowledgeable voices at The Locksmith Store.



35. "Z" is for Zipf Lock. Zipf Lock is represented by Rick Zipf and Don Burson. They were talking with locksmith Carroll Mann from Kowloon, Hong Kong.

The curtains have come down, and the hall is cleared, now, but in July of 2005 over 3,500 locksmiths and exhibitors met in Chicago, to teach, learn, and display their wares. It is interesting to note that 2,035 class seats were filled by locksmiths, eager to extend the knowledge of their trade. During the seven-day convention, 40 full day instructors stood, to present 84 full day and multiple day classes. Many other instructors presented 30 half-day and four-hour workshops. Four two-hour evening seminars became gathering places for locksmiths in search of special knowledge and education.

To cap this educational experience, 160 professional locksmiths took the full PRP exam on Friday night, and another 219 locksmiths took PRP elective exams. Education was indeed the theme of the ALOA convention, but that is always the case. Education is the key to success in most any trade. I was privileged to sit in class for five days this year. The quality of the ALOA Certified Education ACE classes is unequalled anywhere.

Hope to see you at next years ALOA convention July 9-16 in Las Vegas, NV. **TNL**



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Biometric Keypad

by Brian Costley

We may marvel over the precision and robustness of a well made mechanical combination lock, and we may occasionally experience a wave of apprehension when confronted with the complexity of a modern electronic safe lock, but the end user has a different perspective. He or she wants to live in a world where technology makes life simpler. Ideally, it would be so nice to simply walk up to one's safe, and be recognized and admitted. It would be like throwing your television/satellite receiver/cable box/VCR/DVD/DVR remotes away, because all of your home entertainment devices could suddenly read your mind. After all, "If they can put a man on the moon..."

Okay, we're not at that point with home entertainment or safe lock technology... yet. A big step has been taken in that direction, however, with the recent introduction of Sargent & Greenleaf's Biometric Keypad. I think we all agree that biometrics is the hot topic in security these days. In spite of what modern movies por-

tray, successfully counterfeiting human body parts well enough to fool modern technology is a ways off. Biometric technology allows the end user, who some time ago gave up "dial twirling" for the ease of button pushing, to now simply present a unique body part for positive identification and authorization to enter a safe.

S&G's Biometric Keypad incorporates a fingerprint reader in the top of the keypad. And it's not just

any old reader, but a silicon-based active capacitive fingerprint reader. What does this mean? Instead of using infrared or optical imaging, the Biometric Keypad measures and analyzes electrical capacitance between fingerprint ridges. It does this in many different locations, creating a unique electrical image of the fingertip being presented. It won't be fooled by a fingerprint lifted from a glass, and to answer the grizzly question that is almost always asked, it won't recognize a fingerprint if the finger has been removed from its original owner.

Can opening your safe be as easy as presenting a previously enrolled finger to the keypad's reader? Yes. Does the lock open instantly? Almost. There is a short delay while the fingerprint data is processed and a signal is sent to the lock to open; about five seconds. No muss, no fuss, and you don't even have to remember a code.

The proliferation of push-button safe locks has brought with it a growing realization that the new,



1. The S&G Biometric Keypad looks similar to the company's standard two battery keypad, but has the fingerprint reader on top and a user-friendly LCD screen above the number pad.

convenient technology has made it fairly easy for others to view you entering your code, especially if they have repeated opportunities to be near when the code is entered. Poll your customers who use electronic lock equipped



2. Lock and keypad power is supplied by two 9-volt batteries located in an easy to access battery compartment that pulls down from the bottom of the keypad.



3. These are the components used in a typical Biometric Keypad installation. The keypad is the same diameter as a standard S&G two-battery keypad, and the mounting screw locations are the same as for other S&G products, including mechanical lock dial rings.



4. The keypad mounting base is easily attached with two 8-32 or M4 machine screws (both are included) at standard dial ring and keypad mounting screw locations. Note the lock cable routed underneath the base and through the opening at the top.

home safes. Odds are they will fess up to the fact that their kids have had enough opportunity and curiosity to observe and "figure out" the opening code. Try that with an advanced technology fingerprint reader like that used in the Biometric Keypad. Unless the kids are successfully experimenting with cloning in Biology Lab, the safe will remain safe. Besides, you'd probably notice if a new person who looked just like you started showing up at the house.

Keeping observant code snatchers out of the safe is often more than a moral victory. You

don't want the kids in your fully stocked gun safe, and a retail franchise owner doesn't want his cleanup crew to have access to the day's cash receipts. This biometric technology makes a lot of sense from both a convenience and security point of view.

If you would rather use a code on some occasions, the Biometric Keypad will let you do it. Yes, you can open your safe lock with either an enrolled fingerprint or a code. Better yet, you can quickly and easily instruct the keypad to require both an enrolled fingerprint and a valid code. This greatly increases

Jake talks about his new book...

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the level of security, although at the cost of some convenience.

The Biometric Keypad will work with any existing S&G 6120, 6123, or Z02 electronic safe lock, making it a very good candidate for retrofit sales. You don't have to do anything at all to the lock body. Just remove the old keypad from the front of the safe, unplug the lock cable that comes through the spindle hole, then install the Biometric Keypad. A typical retrofit installation, including enrollment of a test fingerprint, will take about ten minutes. Don't forget to read the installation instructions thoroughly, even though it's an easy install. There are a few important pieces of information that will unnecessarily complicate your life if you miss them. For instance, the lock needs to be in the same state it was in when it originally left S&G's factory. That is, with a master code of 1-2-3-4-5-6, in single user mode, and with no other user codes or time delay programming. Otherwise, you will find synchronization of the lock and keypad programming to be a task worthy of its own Jeopardy category ("Alex, I'll take MANUAL TIME DELAY DELETION for \$1,000").

Besides the obvious advantages of an advanced fingerprint reader, the Biometric Keypad sports a two-line LCD screen that takes programming from the realm of one finger holding your place in the instruction booklet



5. The lock cable plugs into a receptacle on the underside of the keypad. It's the same connector you would find on a standard two-battery or a one-battery S&G keypad.



6. The S&G Biometric Keypad looks as good as it performs. It's available in brushed or buffed chrome and brass, as well as 24 karat gold plate.

and the other on the keypad while your head swivels back and forth -to- reading the prompts on the LCD while pressing the appropriate buttons on the keypad. All electronic locks should be so easy to program. Read the programming instructions once, and it's likely you won't need them again. Yes, the LCD makes

all the lock programming just that intuitive.

The dual battery holder accommodates two 9-volt alkaline batteries. As with all S&G electronic locks, Duracell® batteries are recommended for best performance, although any alkaline battery will work. Expect about 1,500 openings and closings on a set of fresh batteries, although turning on the LCD backlight will result in fewer openings before it's time for battery changing. When that time comes, it's an easy job, as the two 9-volts are housed in a compartment that slides right out of the bottom of the keypad.

You will find that the Biometric Keypad is a product that sells itself. Once a customer sees it, touches it, and is shown how easy it is to enroll his or her fingerprint, the fire of desire is lit. A working counter display is your best salesman for this item.

For more information about the Biometric Keypad, get in touch with your favorite Sargent & Greenleaf distributor. Don't know who that is? Go to www.sargentandgreenleaf.com to easily find out. While you're there, go to the product instruction section and download the PDF versions of the installation and operating instructions. Odds are good you'll be seeing a Biometric Keypad soon, whether you sell it or someone else does. You'll want to be prepared. **TNL**

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The Combi-Cam™



by Joan Yarrington



Like a lot of locksmiths, I have always been interested in “gadgety gimmicky” things. “Rubik’s Cube”, “Instant Insanity”, which is similar to the Rubik’s Cube, those large ball bearings hanging from a rod by strings on both sides and when you pull one back and let it go, the other ball bearings are hit and back and forth they go until air and friction stops the action.

From time to time, new gadgets are introduced into our trade and most of them are very useful and are called tools, such as “The Determinator” and “EZ reader” and “plug spinners.” Other times a gadget will make it into the trade and get written up in Greg Mango’s column as something to stay away from.

And then, there’s the gadget that someone has put a new spin on; Enter the Combi-Cam three wheel combination cam lock, (*see photograph 1*).

As you can see, the Combi-Cam is a three-wheel combination lock similar to the Sesame type padlock and luggage locks. The difference is that there is no shackle to pop up or button to push once the correct numbers have been dialed. All you do is

turn the knob and the cam inside moves to unlock the drawer, chest, or any other item you can use a general purpose cam lock on. You have just done away with the key. Also, changing the combination is easy to do.

The Combi-Cam comes in both a chrome and black finish and in three different sizes: $\frac{5}{8}$ ", $\frac{7}{8}$ " and $1\frac{1}{8}$ ". It also comes with both a $\frac{1}{2}$ " and a $1\frac{1}{4}$ " straight cam, and an optional $1\frac{1}{4}$ " offset cam that when used with the $1\frac{1}{8}$ " Combi-Cam gives a reach of $1\frac{3}{8}$ ". An optional metal finger pull and pronged washer for wood applications is also available.

At the time the photographs in this article were taken, gas was right at \$3.00 per gallon, and a locksmith friend of mine who lives in an apartment complex was worried that some of his neighbors might start “borrowing” some of his late at night, so we decided to see if the Combi-Cam would work as an optional gas cap lock.

While gas compartment lids on vehicles are not what the inventors at Combi-Cam had in mind—they were thinking more along the lines



1. The Combi-Cam three wheel combination cam lock.



2. The gas compartment cover used for the installation.

of desk drawers, filing cabinets, tool cabinets, tool boxes, key boxes, etc.—we figured it was worth a try. His van is several years old so it wouldn’t do much, if any, harm to the resale value. Now, the Combi-Cam does not lie flush and actually pokes out about $\frac{1}{2}$ " so you probably wouldn’t want to put it on your brand new family car, but I can see it as a possibility on fleet service vehicles.

Photograph 2, shows the gas compartment cover with the hole we drilled for the Combi-Cam. We also put the hole in the upper

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3. Steve changing the combination from the factory 000.

corner so the cam wouldn't hit the inside gas cap.

Photograph 3, shows Steve (the van owner) changing the combination from the factory 000 to the one he wants to use. This is easy to do. Simply dial in the existing combination, push down the code reset button with the reset tool (or paper clip) and hold it in while you turn the dials to the desired combination. Release the reset button and the combination is changed.



4. The lock mounted in the gas cap cover.

In *photograph 4*, we have pushed the lock through the gas cap cover and tightened down the $\frac{3}{4}$ " cylinder nut. Now all we need is the tailpiece.

In *photograph 5*, we've added the tailpiece or cam and locked it down with the screw and lock washer.

Photograph 6, shows the installed Combi-Cam from the outside with the lid locked. This entire job took all of 10-minutes and my friend can now sleep a little better at night.

Photograph 7, shows a more common application for the Combi-Cam. It is a desk drawer, which also serves as the cash drawer at a beauty salon, which is one of my commercial customers. I told the owner that I would install a Combi-Cam lock for free on her cash drawer, if she would let me take photographs of it and she readily agreed. The lock that is in this photograph is the type we see every day and will soon be gone.

Photograph 8, shows the cash drawer with the Combi-Cam in place. A pronged washer on the back of the lock digs into the wood to keep the lock held in place and prevents it from spinning.

This was just a simple replacement, so it only took a few minutes to do.

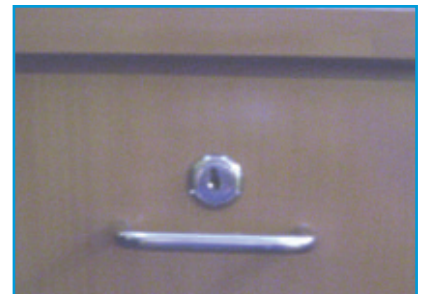
Another locksmith friend of mine, Bill, shops at only the most elite shops in town, which is where he picked up this strongbox—at his local flea market. It was a nice box with a cam lock, but unfortunately, no key, (*see photograph 9*). Luckily for us, that's not such a problem, is it? In fact,



5. The tailpiece is locked with a screw and lock washer.



6. The installed Combi-Cam with the lid locked.



7. A desk drawer is a more common application for the Combi-Cam.



8. The cash drawer with the Combi-Cam.



9. A strongbox with no key.

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when shopping for bargains, such as at flea markets, a locked desk, box, safe, etc., is preferred. Such was the case here as Bill easily picked the lock open so it can be replaced, (*see photograph 10*). This strongbox, as he calls it, will be used to store a handgun.

Photograph 11, is a shot of the edge of the box lid. It shows both the rotating knob of the Combi-Cam on top and the tailpiece beneath.


Photograph 12, is a top view of the Combi-Cam installed on the box.

Although the Combi-Cam isn't a high-profit item in the realm of

a proximity reader, or electronic strike, it can still be a money-maker if sold in volume. The cost to locksmiths, depending on the size of the lock runs between \$6.95 and \$8.95.

Hospitals have many medication lockers and schools, nursing homes and other such places have employee locker rooms and student lockers, and think of all the desk drawers, and different types of cabinets in large or even semi-large companies. If there is a keyed

cam lock present, it can be replaced with the Combi-Cam in a matter of minutes. With the mark-up of the Combi-Cam itself plus the installation fee per lock, I can see instances where a really nice profit can be gotten out of the Combi-Cam, and with a little imagination, you may just find some unique applications of your own.

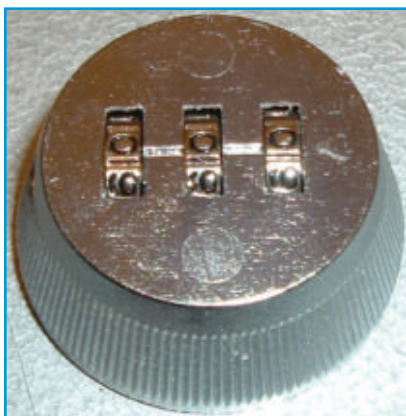
If you want more information on the Combi-Cam, visit their website at: www.combi-cam.com. 



10. Bill picking the box open.



11. A shot of the edge of the box lid with the Combi-Cam.



12. A top view of the Combi-Cam installed on the box.

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C BEGINNER'S CORNER

Installing the Alarm Lock Trilogy D12800



by
Ken Holmlund

A very small rural volunteer fire department without a lot of funds to expend was looking for a lock with audit trail capabilities. I researched what I thought would work for them and contacted them with the pricing. They had to meet with their board to decide what they wanted to do and would get back to me.

As is usually the case, the customer waited until the last moment to tell me what they wanted and then wanted it by the first of the month. Since it was the 24th when they called, I didn't have a lot of time to get everything in order. They wanted to be able to know who had been going into the building but didn't want the cost of issuing cards.

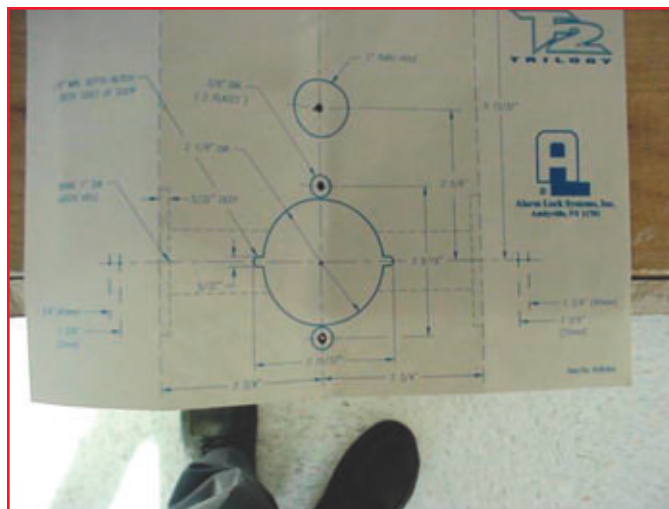
When I did my research I found that Alarm Lock had a unit

that would give them the audit trail they wanted and was much less costly than the card systems. It could handle up to 200 different users and that would be plenty for their needs. The lockset was the Alarm Lock Trilogy DL2800, (*see photograph 1*).

The DL2800 has the following features that allowed it to be the right lock for the fire department:

- 200 user codes including: master, manager, supervisor and basic user and one time entry service code.
- It is weather resistant—a critical factor in Eastern Montana given our winters.
- Audit trail with time/date stamp for a printable record of all electronic activity.
- Retrofits to most cylindrical lockset preps.
- Has a standard key override—SC1 is standard but IC core available though not needed by this customer.

I arrived at the sight of the installation planning for around



2. A template for drilling the holes.

1 1/2-hours work to install the lock. Little did I know there was already a panic hardware setup on the door and they wanted it moved to another location on the same building.

Included with the lockset is a template for drilling the holes, (*see photograph 2*). The 2 3/4" setup was correct for that part of the installation and I just needed to locate and drill five other holes. They included a top and bottom hole for the through post, two additional holes for two other post at the top of the lock and one hole one inch in diameter for the wiring, (*see photograph 3*).

With the holes drilled, it was time to make sure they were drilled correctly and that was done by placing the lock on the outside of the door, (*see photograph 4*). The wiring fits easily through the hole



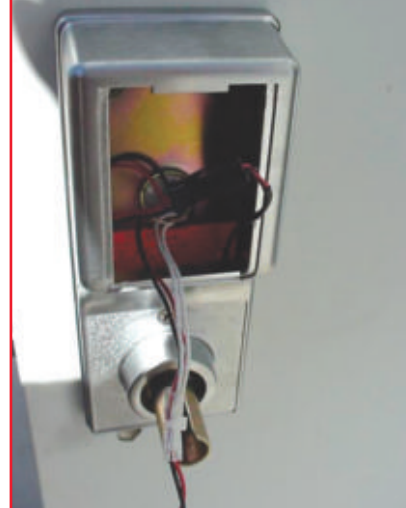
1. The Alarm Lock Trilogy DL2800.

and matches up on the inside as seen in *photograph 5*. Care must be taken to be sure no sharp edges are in contact with the wiring to break the insulation and cause a fault in the lock. I like to file the opening to smooth out any sharp edges since I use a hole saw to cut anything larger than 1/2-inch in diameter.

The inside-cover mounts as seen in *photograph 6*. The large opening at the top of the inside cover facilitates the wiring and the battery pack. A simple connector is needed

to connect the battery pack with the unit and is covered by a lid with a little pressure on the battery pack to hold it in place, see *photograph 7*.

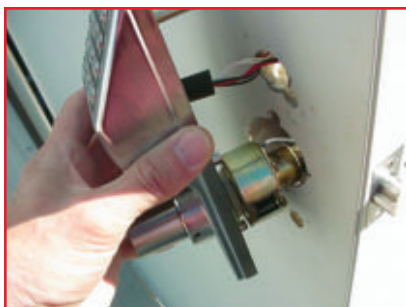
The instructions for programming the unit are about 12-pages long and if you are like me you will have to experience the process to be able to understand it. Included with the lock is a quick schedule program to allow for faster starting of the lock but it does not cover all the possibilities available with this lock.



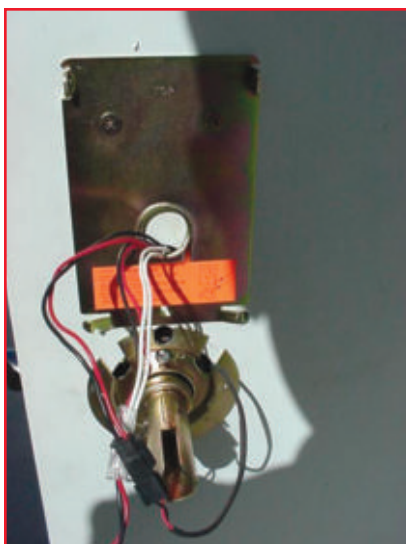
6. The inside-cover.



3. A top and bottom hole for the through post, two additional holes for two other post at the top and one for the wiring.



4. The lock on the outside of the door.



5. The wiring fits easily through the hole and matches up on the inside.

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7. A simple connector is needed to connect the battery pack.

The lock comes from the factory with a master code of 123456. In order to do any programming of the lock you will need to use the master code, but it is recommended that the first job you do with the program is to change the master code to a different one for better security.

Once the master code is changed you will be able to set the time, date and other similar settings that will enable the user to have an accurate record of entry. Alarm Lock claims logging of events to within one second of accuracy and I believe that is close enough for most applications.

A rugged, vandal-resistant, all metal 12-button programmable keypad is the outward connection to the brains of the lock, (*see photograph 8*). The operational temperature range is +151 F to -20F. Entry time is programmable from 5 to 15 seconds to limit the length of time available for secondary entry if someone is watching for the opportunity to enter the door without programming it.

The outside lever is free moving when the unit is locked which reduces stress on the lock body and mechanism. By entering the correct code or using the correct key for key bypass you can retract the latch bolt. The lockset is available in IC prep if needed, (*see photograph 9*). The inside lever is always free for egress.

The handing of the lock is field changeable. Simply remove the levers and loosen the body of the lockset. Turn the body 180-



8. A rugged, vandal-resistant, all metal 12-button programmable keypad.

degrees and place it in the slots provided. Reinstall the outside lever and the handing is changed.

1000 entry activities can be polled by the optional Data Transfer Module to any PC using the DL-Windows software. It can also be printed on site using the hand-held infrared printer that is also available, but not included. The software, printer and module will have to be ordered in addition to the lock if your customer wants those functions. Ask your supplier for more information on these units.

Activities that can be audited include unlock/lock events, program mode changes, user entry, keypad lockout, remote release events, unauthorized code attempts, etc. The lock will lock out after three unsuccessful entry attempts.

The lock is available in US26D, US3 polished brass, US26 polished chrome, US% antique brass, 10B duronodic with other finishes available from the factory. It is powered by 5 AA batteries, supplied with an estimated 100,000 cycles typical. Audible low battery alert warns the user if the battery is getting low as well.

To get the audit information it is a matter of attaching the module cord to the front of the outside of the lockset, (*see photograph 10*), and connecting it to the PC with



9. The lockset is available in IC prep if needed.



10. To get the audit information attach the module cord to the front of the lockset.

the windows based software installed. Instructions for the use of the software and the module are included in the box with them. Again, I need to actually use the software to be comfortable with it and it is beyond the scope of this article to cover all the nuisances of the software.

I found the Alarm Lock Trilogy DL2800 to be easy to install and was a very attractive lock on the door. It is a very versatile lock with many features and would meet the needs of most customers. If your need is for an audit trail but not for cards, the Alarm Lock Trilogy DL2800 should fill your bill.

For more information contact:


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Some days, we need to post a few signs that say, "Caution! Gremlins at work!" One of those days reared its ugly head recently, when Don answered a call to change the pinning on some classroom locks and panic bars at a school in a nearby town. He calculated the job would take him two or three hours, tops. So much for calculations.

"Come on, Mike," he called to our newest employee. "You're fixing to earn your keep, today." An eager young man fairly recently hired, Mike was a novice to classroom locks and panic bars. Don figured on-the-job training was the best way to introduce him to such intricacies of locksmithing.

How could either of them have known a full team of Gremlins lay waiting to foul up their every move?

Don began his instruction once they reached the work site. "Okay, now, the first thing you want to do is take out the screws and remove the covers on the panic bars, then take out the rim-cylinder locks." He demonstrated on the first one. "Once you get the lock out, just re-pin them and put them back together. Piece of cake."

Don left Mike with it, while he went to the school office to talk

to the principal about another situation someone had called about. This ran into a lot more time than he'd planned on, by the time they called in maintenance and he called in the teacher to get to the root of the problem. When Don finally returned, Mike had various panic bars opened up, all the locks taken out, and was working on repining them.

"I've got most of them done," Mike said proudly, "but I couldn't get that one to work." He pointed to one he'd set apart from the others. "It seems to be different from the rest."

Don took a closer look at the panic bar in question and discovered it was, indeed different from all the others.

"Don't worry about this one," he said to Mike. "I'll take care of it while you get the locks back in and the covers screwed on." Other than the delay caused by the little "conference" in the principal's office, things seemed to be moving along pretty much on schedule. By the time they were ready to break for lunch, they'd probably be pretty nearly finished here, Don thought. "Okay," he said when all the panic bars had been reassembled and checked out, "you've learned something new.

Now, for the easy part. Follow me." Don led the way to the teachers' break room, where they could sit down for a minute and get a cool drink.

The school had hired a couple of new teachers who needed keys, he explained to Mike. The entire school was keyed to a dual master-key system, one part keyed entirely to the Schlage keys in use, the other to Sargent keys. Each teacher had two keys issued to her. One would open her classroom, only. The other would admit her to one outside door in the building where her classroom was located (there were several), the supply closet, and the teachers' lounge.

Although it wasn't a perfect system, the locks in this school had originally consisted of a conglomeration of brands. By replacing the miscellany of locks with only Schlage and Sargent, this dual master/submaster system that Don had devised far exceeded the hodge-podge that existed previously.

Don removed one of the locks they were supposed to re-pin and dumped the old master wafers, pins, and springs out on the table. Then he carefully separated the three sets of pins, explaining to Mike what each consisted of and how they should fit into the lock.

"First of all, as you remove each of the locks, be sure you label it so we'll know where it goes when we get ready to put it back into the door. Then lay out all the pins and springs in the order that they go in, before you start putting things together. That way, you're not as apt to make a mistake." Just then, Don's cell phone rang. He was needed for an emergency lockout situation several miles away. Fairly confident that Mike could handle the repining on his own, Don left him a file card bearing the correct pinning information, told Mike not to try re-installing the locks until he got back to help, and hurried off to aid a fair damsel in distress.

By the time Don returned to the school, Mike was in a complete state of confusion. Try as he might, he couldn't get any of the keys to work in all of the locks they were supposed to fit.

"Okay, show me what you've been doing," Don sighed. Mike dumped everything out of one of the cylinders to show Don the steps he'd taken. That's when Don noticed a slightly bent spring. "Have you been replacing all the springs as pins with new ones, as you go?" he asked.

"I guess I forgot to do that," Mike admitted. "Does it matter?"

"It can. That's why we always try to put in new ones and clean the lock. It helps eliminate trouble and gives the customer a smoother-working lock when we're done."

"I guess that falls under the 'Positively Outrageous Service' you've been talking about?"

"You got it. Now, let's open up these cylinders and do them right. Don couldn't help noticing in the process that Mike was laying out a wrong pin in the process of lining up

what was needed to re-pin each lock. "That may be your culprit," he pointed out. Mike admitted, now that Don had pointed out the error, that he'd probably made that same mistake before.

The day was winding down as they finished cleaning and repining all the locks, tested them to be sure they worked perfectly, and prepared to replace them in the appropriate doors. Don showed Mike how

to make sure each classroom-function lock was installed with proper "timing." He inserted the key in the plug and slid it, cylinder and all, into the knob. With the flat tail-piece in place, he turned the key a quarter of the way around. "Then you slide knob and all onto the chasses until it reaches the retaining tab and stops. Press the retaining tab down through this little opening on the chasses and push the cylinder

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in far enough that the retaining tab locks into place.”

“How do I know if it’s in right?” Mike asked.

“You can check it by turning the key. If the key won’t turn completely around to lock it and then back all the way around to unlock it, you don’t have it in there right. It’s got to go the full 360°. If it doesn’t, you need to rotate the cylinder a quarter turn to the right or left, press the retainer button, and pull the cylinder out. Then you turn it the cylinder over—a full 180°, and put it back in. That should put the lock ‘in time’.”

“Of course, nothing else went as expected today, with the Gremlins at work, so I was pleased when Mike caught on to that as quickly as he did,” Don said when he was relating the events of the day to me later that evening.

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“You never did say what happened on the emergency call?” I asked.

“You name it. In the first place, the ‘emergency’ turned out to be a joke.”

“You’re kidding! Who would joke about something like that?” I asked.

“I didn’t mean that kind of joke, I meant a real fiasco!”

After driving nearly twenty miles, following directions that were less than perfect, Don arrive on the site still a bit anxious about leaving Mike on his own at the school. The lady in distress was fit to be tied, first, because her little yappy lap dog was locked inside the car, and second, because it had taken Don most of a half hour to get there.

“I didn’t bother to point out to her that if she’d given me the right directions in the first place, I could have gotten there sooner,” Don added. “Besides, the pooch was quietly sleeping on the shady side of the back seat while his owner was running around the car in hysterics.”

“Not the best of working conditions for you,” I injected sympathetically. “I assume you got the door open without too much difficulty?”

“Mmm. Yeah, eventually,” Don muttered. I glanced at him, a questioning look on my face. “Well, if you must know,” he finally said a bit sheepishly, “I kept trying to get the door open, but the blasted cylinder just wouldn’t turn. Finally, I grabbed the door handle and pulled on it, thinking maybe it hadn’t been closed properly before the door lock was engaged.” He paused, as if trying to decide how to say something.

“Yes?” I asked. “And...”

Don ducked his head. “That door that I’d been trying to pick open for fifteen minutes?”

“The one where the cylinder wouldn’t turn.”

“Well, the reason it wouldn’t turn was...” He cleared his throat, glanced away, and muttered something I couldn’t understand.

“I’m sorry, Don, but you’re going to have to speak louder. I can’t hear you.”


“It wasn’t locked,” he shouted.

I couldn’t hold back the laughter. It just sort of exploded from somewhere inside me. Talk about Gremlins! I could visualize this hysterical woman running around screaming and beating on the car, her little dog sound asleep inside, Don frantically trying to get the door opened before his customer killed him, and then everybody discovering the door had never been locked in the first place.

“Well,” I said as I choked back another laugh and wiped tears from my eyes, I guess you can at least be thankful Mike was at the school with you, and you were able to teach him what to do next time you run into panic bars and repining locks.”

“Yeah, but I wonder about that boy, sometimes. He kept saying things like, ‘We’re running out of time,’ and I’d try to correct his terminology, telling him the terms were that the locks were either ‘in time’ or ‘out of time,’ not ‘running out of time’.”

“And what was his response to that?” I asked.

Don’s eyes twinkled. “Mike finally pointed to his watch and said, ‘No, I mean it’s ten minutes to five. That’s what I’ve been trying to tell you. If we’re going to make it back to the store by quitting time, we’d better hurry, ‘cause we’re running out of time.’” 

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FIRE SAFE OPTIONS



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Every once in awhile as a safecracker you run into a golden oldie. In this case it is a small Mosler office fire safe, (see photograph 1). This safe was sitting in a corner of a large marketing concern for many years, locked and dusty. One of the office managers decided to get it out of mothballs and use it in his office.

The question that was most important to the customer at this marketing company was "Is it cheaper to open and repair this safe or cheaper to buy a new one?" I told the customer that this was a well made safe, with relocking devices and hardplate. A safe of this caliber could not be had for what I was going to charge for opening and repair. They bought it and I got out my tools.

I brought a friend along, Eck. At first he wanted to learn to drill a safe, but when he saw it was a Mosler, he decided to let me do it. He took the pictures. At times it is more fun teaching someone how to open and drill a safe than to do it yourself. I learned this at a Dave McOmie Penetration party and at my own safe opening party. Telling others what to do is easier than doing it yourself. Maybe not as



1. Small, heavy Mosler office fireproof safe. Handle moves up (clockwise) to open.



2. Five inches between Dial center and handle center, Lock mounted Horizontal Left.

pleasing as doing it yourself, but still agreeable, pleasant, and enjoyable. Eck has been a locksmith for many years, but never got into safe work other than changing combinations, tightening

dial rings, and general safe lock and door maintenance. He understands the theory, but never wanted to venture into "Pure Safecracking." I explained it to him step by step with many options.

The first thing I did was measure the distance between the dial center and the handle center, (see photograph 2). This was used to determine the handing of the lock. The distance was 5-inches. If the measurement was 4-inches or less, then the lock would have been either Vertical Up or Vertical Down. Since the measurement was 5 inches, the lock was mounted Right Handed (RH). This means that the lock was on a horizontal plane with the bolt to the left. Once we know the handing of the lock, we can determine exactly where to drill our viewing hole to see the gates and lever of the lock and dial it open.

I turned the dial several times and tried a few combinations to get the feel of the lock itself. It did not have the click-click of a MR302 which is the manipulation resistant lock from Mosler. I counted the wheels and there were three. If there were four wheels, then it would have been a Mosler 402. Since there were three wheels, I decided that the lock felt like a Mosler 302. The configuration of the dial pretty

much confirmed it although Mosler CD120 locks used a similar dial like this.

Eck's eyes started to slightly glaze over at this point. The next obstacle was to remove the Mosler dial, and then the dial ring. All our drilling would be under the dial ring, so that the repair would be invisible. There are many options to removing this dial and I tried them all. The first thing was to break the black plastic insert in the middle of the dial ring (*see photograph 3*). There are commercially available replacements. More in a minute.

There is an old trick that I tried once to open a safe door like this. First remove the flat-head screw at the end on the handle. This is a $\frac{3}{8}$ -inch screw about 6-inches long. Once this screw is removed the handle can be disassembled. There is a raised part of the handle spindle that keeps the handle from being pushed into the safe. If you can

grind down this arbor, then the handle can be pushed slightly into the safe enough so that the handle cam will pass behind the lock bolt, sort of like a Meilink push back handle opening trick. I tried it once with disastrous results. Even if it did work, a new



3. Plastic replaceable center broken out for dial removal.

handle spindle would have to be used to repair the safe. I thought it was more trouble than it was worth, but others have had success with this trick.

The dial inserts break easily and a small hammer or small drill can be used. The first trick I

tried was to put a small punch on the end of the spindle and pull out on the edge of the dial turning ring. This was a trick I learned from Downie Downless decades ago. Sometimes it works! This time it did not. Onward and upward.

The next tool I showed Eck was a dial ring puller that attached to the dial turning ring with four set screws. Once the tool steel set screws were tightened, a bolt with a turned down end was screwed into the center of the hole where the plastic insert was located.

The Mosler dial is made of four parts. They are stacked and screwed together with two wide-thread sheet metal screws on the underside of the dial. The parts in order (my nomenclature) are the outer dial turning ring (doughnut), the black plastic insert, the plate with the numbers (the number dial) and the bottom concave cup.

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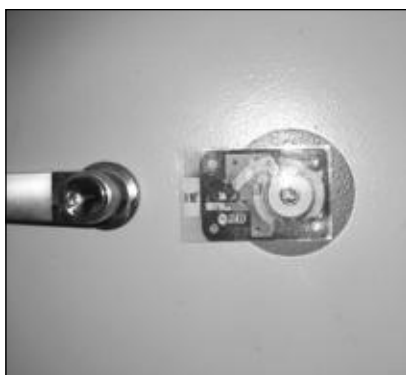


4. Custom dial center from SafeBusters.

The net result of using the screw off type dial puller is to screw off the dial turning ring. This left the bottom concave metal cup still attached to the dial spindle. This is unacceptable if you plan to attach a drilling template to the door. With the cup still attached you cannot remove the dial ring to get to the surface of the door. It does not wreck the dial ring however. It can still be reassembled and reused most times.

Eck asked why I did not use the traditional slam puller. With Mosler locks, the 302 to be exact, pulling with a slam puller will deform the bottom of the lock because the wheels are on the cover and the drive cam is up against the bottom of the lock case. Pushing off the dial saves wear and tear on the lock case and the drive cam itself. The net result however, is that on this particular lock and case the dial turning ring would have pulled off and the dial cup would still be in place.

I have a special puller (unfortunately without photograph) that is used on these dials. You break the plastic insert and put a steel template into the hole above the concave cup. It fits perfectly. There are four holes for four long sheet metal screws and a holding bar to use when drilling pilot holes in the base of the cup. Once the fixture is attached to the dial cup, a long screw is inserted into the center of the fixture and turned in until the dial is pulled off. I wanted to



5. Drill Point photo template from Carl Cloud.

show Eck all the options, but I should have used that tool first. It never fails.

After a half hour or so, the dial and dial ring are removed. Many years ago, I made some plastic inserts to repair these dials. I gave Little Tommy about 50 of them and I kept the rest. Any insert about 1.5 inches in diameter will work. I made mine with an 1.5 inch hole saw and 1/8-inch thick Plexiglas. I trimmed the plastic and put a blue Contac paper on both sides of the plastic piece. Tom and I both smile when years later we come upon one of our "fixed" dials. It means that one of us has already worked on that particular safe. We have found them in some of the strangest places and in strange cities where we have never worked. The inset can be seen in *photograph 4*.

The first items I used to carry in my 'bag of safecracking tricks' was actual combination lock cases from locks that I had previously opened. I would hold the lock case to the door backwards to determine where to drill. This was good, but eventually unwieldy and too heavy. The next items I used were "see through templates" from Carl Cloud's Learning Unlimited School. I laminated these and used them for many years successfully. See the example of the Mosler 302 template in *photograph 5*.



6. MiniRig Mosler template and drill attachment installed.

Next came a flood of stick on templates and magnetic templates for marking and free hand drilling of safe doors. My magnetic templates seem to become covered with drilled metal. If you had to drill through hardplate, you would be required to have a hardplate chain and drilling rig. I do, and they still work when other methods fail. It is good to have a fallback.

Was I going to free hand drill this Mosler in front of my friend and mess up? NO way. I stuck on a MiniRig Mosler metal template from StrongArm and started drilling, (*see photograph 6*). The door on this little unit was five inches thick before I came to the hardplate. I drilled in the listed location to be able to view the wheels and the gate on the opening lever. When drilling this hole, there is nothing in the lock to mess up and nothing blocks the drill bit, so it is a nice location to put a hole in. Using a right angle scope the lock opened pretty quickly. Sometimes it is hard to see the gates in the black plastic wheel easily unless you have a good scope and a good light source. I used a Hawkeye 7-inch scope and a diode light source. That is me in *photograph 7* opening this safe.



7. Me, dialing safe open.

can be removed and the lock serviced. I removed the entire back plate and cover to more clearly show the innards of this safe door.

This door was secured by two movable bolts at the top and bottom of the door. The bolts can be seen attached to the handle cam in

the last photographs in this article. *Photograph 9*, shows the back cover plate removed and the lock in the unlocked position. It is important to note that when a Mosler lock is unlocked and the bolt retracted, the end of the bolt is flush with the outside case of the lock as can be somewhat seen in this photograph. There is



8. Safe open with round access plate on the door plate.



9. Mosler lock in the open position. Note bolt flush with body when open.

The safe is open in *photograph 8*. There are two drawers on top, one locking. To service this hand change combination Mosler 302 lock, one has to remove the large round white circular cover on the back plate of the door. It is held in place with two sheet metal screws. Once this cover is removed the back of the 302 lock

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10. Lock in locked position with back cover on lock. Only 2 bolts to secure door.

an anti-force screw below the right side of this lock, and running parallel with the lock (Horizontally) is the hook type relock bar.

When the lock is punched, the lock mounting plate is pushed away from the door and this allows the spring-loaded relocker to spring into action. The hook cutout in the top of this bar engages with a stud on the bottom of the handle cam and securely relocks the handle cam. The other sad fact about this punching trick is that it may not punch the lock far enough away from the safe door to let the bolt bypass the handle cam. Not only has the burglar not really punched the lock, he has set off the relocking device below the lock.

Photograph 10, shows the Mosler 302 lock in the locked position. This lock also incorporates an internal relocking trigger. If the back cover is punched off, a small pin in the cover lets a spring-loaded pin in the lock case itself spring up. When this happens, the relock button must either be pushed down through the spindle hole (hard to do) or drilled out from the outside. The relocking pin is also heat activated. The setting

pin is encased in a solder like substance that melts at low temperatures and will cause the relock trigger to be set.

The wheels are held to the cover with a "C" clip. Remove the clip and the wheels and the spacing washers will come off their posts easily. Up until this time, I was planning to reuse the Mosler lock and dial again. It was going too well. All I had to do was to remove the double bladed spline key.



11. Trying to remove spline key with back cover screw. It failed, threads stripped.

Disaster ensued. *Photograph 11*, shows me trying to remove the round double-sided spline key. The simple trick to do this is to use one of the two back case screws which are slotted fine thread screws. The center of the spline key has a threaded hole in it with the same screw pitch. All one has to do is thread one of the screws into the spline key and pull it easily out of the drive cam. Well, both screws were stripped at their ends. I cut one of the screws shorter to non-stripped threads. I inserted it into the spline key hole. The spline key hole was also stripped beyond repair.

I then tried to gently pry up on the edge of the spline key with two small flat screwdrivers. The spline key moved easily upwards. Unfortunately, only one of the

two spline bodies moved upwards. The other was broken off below the level of the top of the drive cam. I was unable to punch the remainder of the spline key in enough to get the drive cam off. This was because the drive cam spline slot does not run the length of the drive spindle. It is just long enough for the particular safe it is on and there is not enough extra room to get it out easily.

I removed the two screws that held the lock to the relock mounting plate to the safe door. This accomplished two things. It let me remove the lock and it set off the relocking bar located below the lock. *Photograph 12*, shows this clearly. The relocker has captured the stud on the drive cam. Also, the hole I drilled can be seen at 1 o'clock from the spindle hole. It was decided by Eck and me that it would be easier to work on the door at my workshop and return with the repaired



12. Mosler relocker activated by hooking lower handle cam stud.

safe door. The customer was happy and stated that there was no real rush. The safe had been in their shop locked for 10-years.

It was an interesting opening with several different things and options available. In the end, however, the safe always opens. So, Open and Prosper! **TNL**

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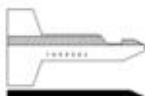


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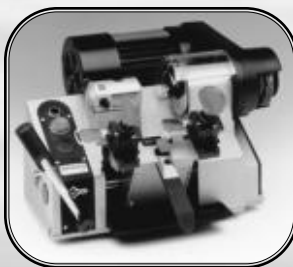


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Or send your tips via E-mail to: Natllock@aol.com

Rules & Regulations: Each tip submitted must include your full name, street address (no P.O. Box numbers), city, state, zip code, phone number, fax number and e-mail address **When sending tips via e-mail make sure to include complete address and phone.**

Every Tip Published Wins: If your tip is published you will win one of the monthly prizes listed. At the end of the year, we choose winners from all the monthly tips published, that will be awarded one of the fabulous year end prizes. All you have to do to win is enter.

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9th Prize

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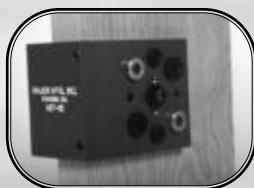
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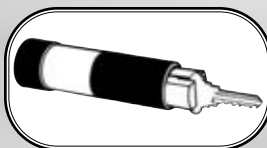
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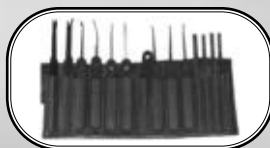
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Preparing Blanks

I was reading Mehdi Zakedi's tip on Titan key blanks in the April 2005 issue. It occurred to me that I use a similar method of using the customer's key to make the cylinder removal tool. So I want to share my tip with you and other fellow locksmiths.

To speed things up I use my Framon DBM-1 flat steel slotter machine (any safe deposit key duplicator will work) and any existing Kwikset Titan rekeying tool—the key they send with new locks that has a notch cut in the bottom of the blade. I mount the tool and a 6-pin Titan blank in the cutting machine so the bottoms are facing out of the vices. Line them both up with the edge of the vices and copy the notched part of the rekeying tool onto the blank key.

I make 10 or 15 of these to have them on hand so I can quickly duplicate the customer's working key onto one that can be used to remove the lock cylinders. Then I copy the new key onto one for reinstallation of the freshly rekeyed cylinders.

Works like a charm.

*Mike Moore
Michigan*

Prevent Adams Rite Call Backs

It's easy to get into the habit of simply putting a cylinder back in an Adams Rite lock and tightening down the screws and leaving. However, here are six steps I follow to prevent call backs on re-installations of Adams Rite lock cylinders.

1. Remove faceplate on lock.
2. Loosen the 2 mounting screws on lock.

3. Remove cylinder set screw and unscrew cylinder.

4. Install a new, or rekeyed cylinder.

5. Put a round brass rod into the setscrew hole and line up the groove that the setscrew will contact. This can be done by feel when rod falls into the groove. It can be felt.

6. Now install set screw. Tighten lock mounting screws.

7. Replace lock plate.

This procedure when followed will prevent a call back when the key fails to open a lock due to the setscrew not in the groove in the cylinder.

*Alex Melko
Connecticut*

Weiser Pick Trick

The Weiser knob lock cylinder is quite easy to get apart and rekey when there is a working key available. When there's not a working key available, the cylinder can be a little tricky to remove.

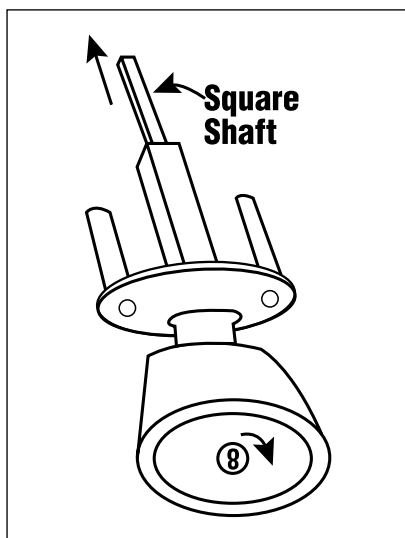


Illustration A.

With a working key available simply pull the square shaft out about 1/4" to it's limit, and hold it out while turning the key clockwise in the cylinder 12 o'clock to about 2 o'clock, (see illustration A). Then just pull the cylinder out, along with the front face of the knob.

Without a working key available, it is necessary to pick the lock while holding the square shaft protruding from the knob out. There is a spring fighting you as you pull on that square shaft. Since I have not been able to grow a third hand, it was necessary to figure out how to clamp that square shaft in the pulled position.

My ViseGrips® were too heavy, dangling around messing up the gentle torque necessary on the cylinder while picking. The solution was to use a "Push-Nut" available in the local Ace hardware store.

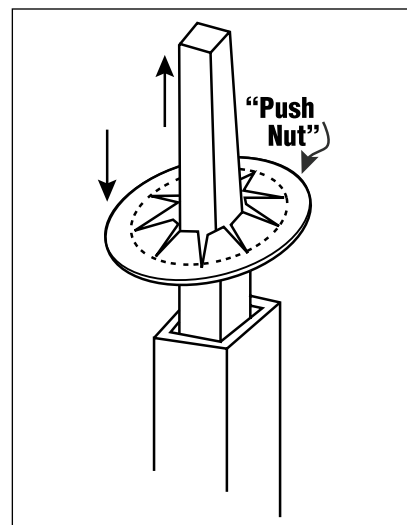


Illustration B.

Slide the Push-Nut all the way down the square shaft while pulling the square shaft out, and the square shaft will then be clamped in the required pulled position, freeing your hands for picking the cylinder, (see illustration B). Lock-Eze in the lock helps enormously when picking these locks.

Using needle nose pliers, the Push-Nut can be wiggled off the square shaft, and re-used.

*Robin McKinnon
New Mexico*

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Interchangeable Core Chart

Here's a handy little chart that you can carry in your wallet or card case for handy reference.

This quick reference chart allows you to decode Best-type cylinder cores for a control key. The convenient little card has all the information you need on it, (see illustration C).

The first column is the Top Pin Number.

The second column is the decimal equivalent of that pin.

The third column gives the actual cut for the control key.

TOP pin	DIM.	CUT	KEY cut
13	.162	0	.319
12	.150	1	.307
11	.137	2	.294
10	.125	3	.282
9	.112	4	.269
8	.100	5	.257
7	.087	6	.244
6	.075	7	.232
5	.062	8	.219
4	.050	9	.207

Illustration C.

The fourth column gives the "root" dimension (decimally) of that cut.

I think this chart's about as handy as the pocket on your shirt! It sure is a time saver for me.

*Billy D. Jackson
Texas*

Poke Hole Trick

I was asked to service a gate with a Schlage "D" series key-in-knob lock on it. It was only a simple rekey, but someone had mounted a collar around the shaft of the knob, which prevented easy removal of the knob. With the poke hole covered, removing the knob would prove to be tricky at best.

If you look at *illustration D*, you can get an idea of the arrangement I faced. Here's how I solved my problem:

I "guesstimated" where the actual poke hole would be in the shaft of the knob and drilled a 1/4" hole through the collar at that point. Then I simply spun the collar around until the actual poke hole was exposed, depressed the retainer and removed the knob.

After rekeying the knob set and reassembling the lock and

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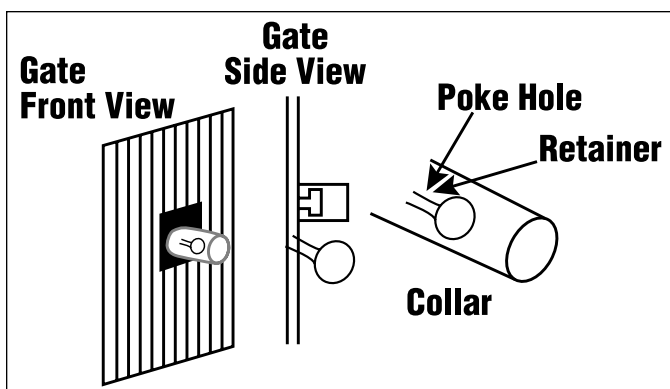


Illustration D.

collar, I used a small POPRIVET to fill the hole I drilled.

*Walter B. Houston
Illinois*

Quick Wafer Tool

I needed a wafer tool but did not want to buy one so I made one out of a pair of old needle nose pliers. I heated the jaws and bent one 90-degrees $\frac{1}{4}$ inch or so from tip and bent the other jaw to the left so it would be out of the way of the wafer. To use just put jaw with the 90-degree bend on the wafer and squeeze. It works great, and the best part is the cost is nothing.

*Richard Dibble
Indiana*

Listen To The Wafers Fall

Some will think I'm crazy, but it is actually possible and often useful to fit a key to a wafer tumbler cylinder by sound. This is similar to the reading technique, but you use your ears instead of, or in conjunction with your eyes, to fit the key.

To make this system work, the tumblers are all pressed down with the flat side of a half-diamond pick. Then I begin slowly withdrawing the pick so that I can hear the tumblers fall one by one.

With a little practice I have learned to know that the louder the "click" as the wafer falls, the lower the number. That is: a number one wafer will make more noise, or click louder than a number five wafer!

Conversely, the softer the click the deeper the cut of that wafer.

On newer locks (probably because of the spring tension and free movement of the wafers) this seems to work much better than on older locks. It takes a little practice, but I find I can

impression by ear now as quickly as I can by sight!

Of course, you have to have good hearing and great concentration.

*Carl Locksmith
California*

Protect and Save Those Expensive File Blades

I have several types and styles of files that I use quite a bit. I used to keep them in my toolbox while on the worksite, but would

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always have a problem with the files rubbing against each other or other tools.

I have good money invested in my round and pippin files and found an easy way to protect them is with plastic straws! Straws come in different diameters from the small coffee stir sticks to big pea shooter sizes. Just slide them over the blades like a sheath and your blades and investments are protected!

Frank Kitchen
Indiana

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Facecap Trick

When replacing facecaps on auto door or trunk cylinders, after removal you must first replace

the shutter assembly, which can be difficult since you have to hold several pieces together.

I found this neat way to make it easier on myself. First I put the spring and shutter in position. Then, using the eraser end of a pencil to hold the shutter and spring in place, I slide the facecap down the pencil (while holding pressure on the spring and shutter). Then I use my fingers to hold the facecap, shutter and spring in place while I insert the proper blank into the keyway.

With the jaws of my bench vise already open about an 1/8", I insert the head of the key into the jaws (with the face of the lock towards the vise) and then slide the face cap assembly down to the top edge of the vise jaws. Then I tighten the vise, which holds everything together while I peen over the "ears" of the face cap.

I've found this method to work well with even the most troublesome caps and shutters.

Carl Eschen
California

There Is Always Another Way

I assumed my lockout job would be easy pickings and I'd be on my way quickly. Until I found that both front and rear doors had Medeco locks on them and the deadbolts were both locked!

Of course, I began searching for another way in.

When I got to the patio, I saw that the patio door (the active one) had a piece of wood cut to fit the bottom track of the door and at the top side of that door, someone had drilled the stile and put a pin through the hole securing the door to the inactive slider.

Looking the situation over, I went to the truck and came back with a large screwdriver and a couple of car opening tools. I inserted the screwdriver under the edge of the active door and leveraged (gently) the door up as far as I was able to get it to go.

That gave me enough room to slide a flat car opening tool

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under the door and manipulate the wooden bar out of the bottom track.

Next, I would alternately put pressure (with my foot) on the screwdriver and hit the stile of the door (behind the pin) with the heel of my hand. That worked the pin out and allowed me to open the sliding door, gaining entry to the house.

*John Prieto
Florida*

Distributors Can Help With Lock ID

A while back a customer brought in a lock that he wanted re-keyed. I wasn't familiar with this lock and didn't know how to remove the plug. The cam seemed to be riveted on and I assumed the lock was not serviceable. Not true.

The key had Hafele imprinted on the head. If you call your distributor you can purchase a change key to remove the plug. You can make your own change key with an Ilco 1043C key blank. Impression the key or read the tumblers. You will note that this cylinder has step wafers, the left side is for the change key and the right side is for the operating key. If you make your own change key you will need to cut the tip off of the key at the end of the last cut so it will by-pass the cam.

To remove the plug insert the operating key and turn fully clockwise (unlocked position). Remove the regular key and insert the change key. Turn the plug 90-degrees clockwise (a slight resistance will be noted) and pull the plug from the housing. While you are calling the distributor to get a change key, order a new cylinder plug at the same time. There are about 149 different plug changes but the distributor will not carry them all.

To replace the plug make sure the lock is in the open position, insert the change key in the plug and rotate the change key counter-clockwise a full $\frac{3}{4}$ turn. Now the lock is ready for use.

If the customer only needs a key made you can use an Ilco 1043B key blank and impression the lock, read the wafers (wafers on the right side of the lock) or make a key by code. Use the Illinois Misc. Code series 100T-149T or the Illinois Misc. code series 100TA-149T A.

If you try to pick this lock it will not open because the cam is not connected to the plug. Pick the plug only slightly, insert a long shim through the plug and engage the cam. Turn both the

plug and the cam to open the lock.

If you don't have a rekeying kit you could change the position of the wafers in the plug, but I wouldn't recommend this because the code on the face of the lock would not match the biting and the change key would no longer work. I haven't tried it, but you could duplicate the normal key, cut off the tip and use it as the change key.

*Kenneth R. Novey
Iowa*

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BUSINESS BRIEFS

Kaba Announces Additions to Sales Organization

Kaba Access Control has named Charles Hayes Business Development and OEM Manager for North America and has named Roger Bergstrom Product Trainer. Hayes will be responsible for



Charles Hayes

developing the access control business through new channels as well as maintaining and cultivating OEM opportunities. He has been with the company for over 2 1/2 years, serving as the Product Manager for Simplex Push Button Locks.

Bergstrom joins Kaba with over 20 years experience in the access control and locksmith



Roger Bergstrom

industry. Both Hayes and Bergstrom work in Kaba Access Control's headquarters in Winston-Salem, NC.

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Mil-Comm Launches Lock Lubricant At ALOA Show

The LockSaver® line (aerosol, grease and oil) fully synthetic lock lubricant has created quite a buzz. Mil-Comm has received a great deal of positive interest from the locksmithing community, with many comments such as "we have been waiting a long time for a product like this". The pleasant smelling, non-toxic, environmentally friendly formulation, in addition to the great performance of the lubricant itself, is really exciting the trade.

LockSaver® products have an exceptional pedigree based on proven military use and approvals. Their high-performance features provide very long-lasting lubrication and corrosion protection in all climates. Keep an eye out for a smaller (tool-box size) aerosol can this fall!

A1 Notice About Transponder Keys

A1 Security Manufacturing Corp. is advising locksmiths to not attempt to use older PK3+ transponders in 2006 GM vehicles.

According to A1, information is being disseminated that older GM (2004-05) PK3+ transponders will program into newer 2006 vehicles. A1 does not dispute that,

on occasion, the older PK3+ transponders supplied by A1 and other manufacturers will program into a 2006 vehicle. However, the new Circle Plus transponders are specified for 2006 vehicles by General Motors. A1 says it is important for locksmiths to understand that the newer version is designed to transmit a stronger signal. This strengthened signal is accomplished by the placement of the



transponder within the key's head. In those instances where an older PK3+ transponder programs, its function could be seriously compromised.

Currently A1 is the only manufacturer shipping transponder blanks with the specified Circle+ transponder. The original equipment GMX-380C with Chevy logo is specified for the 2006 Impala, HHR, Cobalt, Monte Carlo and the 2004+ Malibu. **TL**

2005 HONDA Big Ruckus

by John Blankenship



1. This unique scooter has a 250cc engine and uses an 8-cut key. It is not to be confused with the Honda Ruckus scooter that has a 50cc engine and uses a long 5-cut key.

2. This view from the drivers seat shows the ignition/steering lock behind the handlebars. The gas cap lid is near the bottom of the photo between the frame tubes; just pull the latch back to open it.

Continued on page 108

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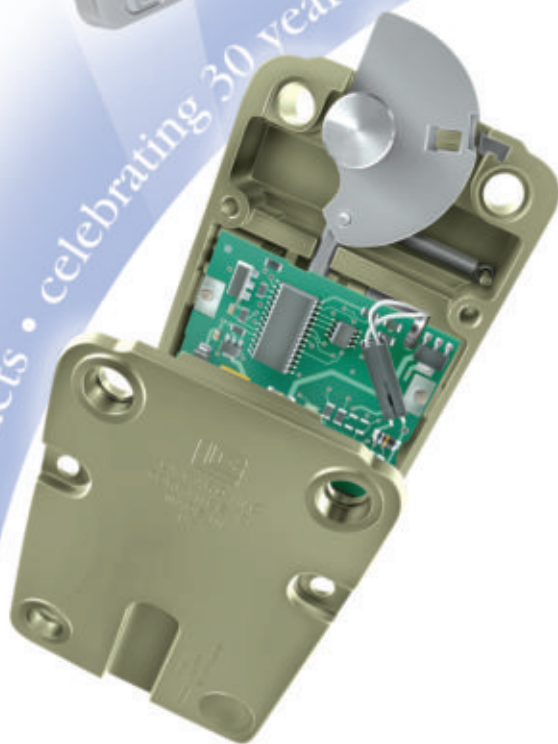
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3. The ignition lock is shown in the OFF position and it is necessary to push the plug in to lock and unlock the steering. The handlebars have to be turned to the far left or right before the steering will lock.



4. To remove the gas cap, turn the plug 90-degrees clockwise to unlock it and then turn the cap counter-clockwise to remove it. There are no codes on the gas cap and it is not practical to disassemble it due to the cover being

crimped onto the housing. The gas cap has wafer tumblers in spaces 4-8. The keyway is wide open, there are only 3 depths, the #1 and #3 depth wafers are bronze, and the #2 depth wafer is silver, so it is an easy lock to read. The cuts for spaces 4-8 in this particular lock are 12231, so we are able to see wafers of all 3 depths just by looking into the keyway. It is easy to progression the cuts for spaces 1-3 in the ignition lock because the first space is always a #1 depth (no cut) so you really don't have to be concerned about it; you only have to progression spaces 2-3. With only three depths there are only nine possible combinations to try. Try 1: 11, 12, 13, 23, 33; Try 2: 21, 31, 32; Try 3: 22. You will need to cut both sides of the key for each try because the wafers are staggered on both sides of the keyway in the ignition lock.

Continued on page 110

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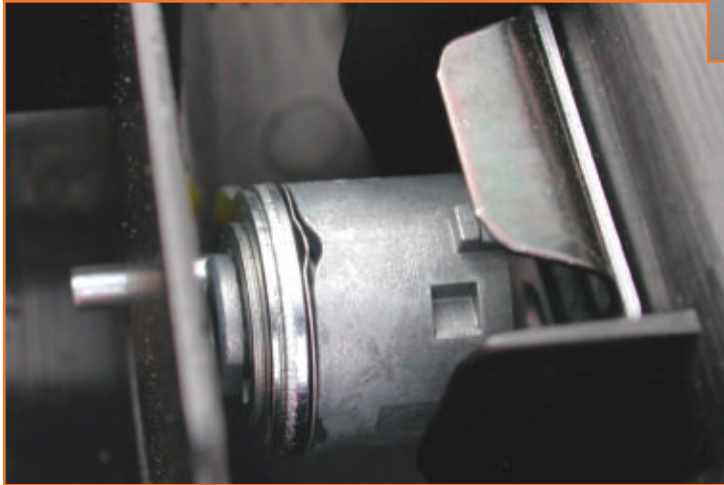
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5. The seat lock is located below the front of the seat and contains wafer tumblers in spaces 4-8. To remove the seat, turn the lock 90 degrees clockwise and then pull the knob so you can lift the front of the seat and pull it forward.



6. The back of the seat lock is shown after the seat is removed. A horseshoe clip holds it on. The tailpiece is held on with a C-clip.

Continued on page 112

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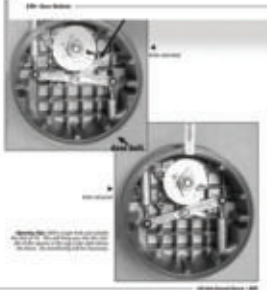
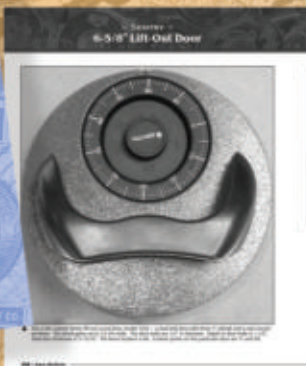
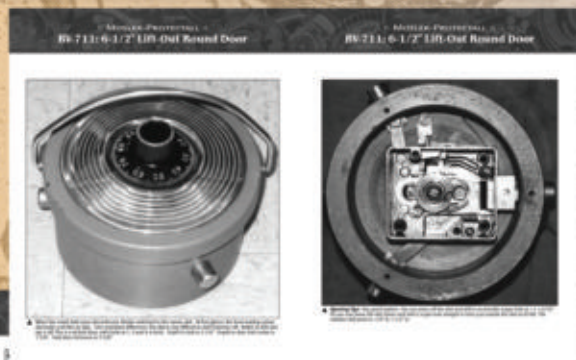
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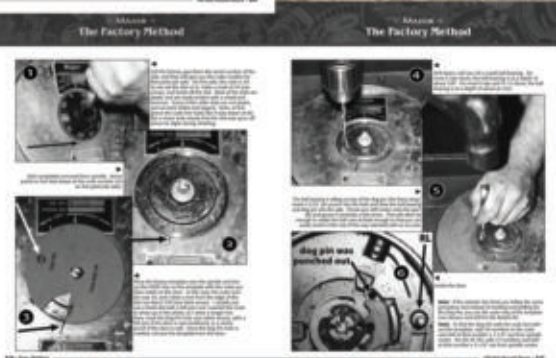
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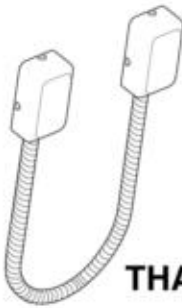
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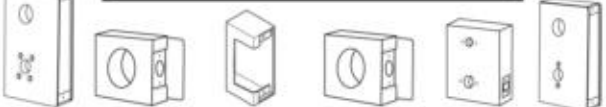
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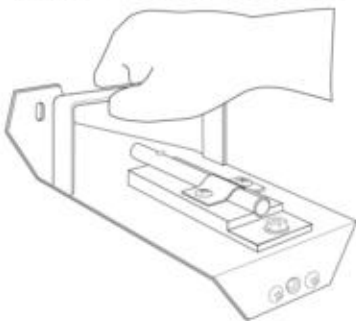


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7. This photo shows the seatback lock in the upper/right of the photo and the toolbox lock in the lower/center of the photo. Both of these locks contain wafer tumblers in spaces 4-8.



8. Turn the seatback lock 90-degrees clockwise and lift the lever to raise or lower the back of the seat.



9. Turn the toolbox lock 90-degrees clockwise to open it. A horseshoe clip holds it on. The tailpiece is held on with a C-clip.



10. The original keys are on the bottom and a code cut X265 is on top.

Codes: J, K, L, M, N, P, Q, R, S, T00-99, U00-U39 stamped on ignition lock or 11111111-33333333 direct read tip to bow stamped on metal key ring tag.

Blank: Ilco X265 (HD109), Curtis HD109, Silca HON63FP

Spacing: 1=.098, 2=.197, 3=.295, 4=.394, 5=.492, 6=.591, 7=.689, 8=.787

Depths: 1=.276, 2=.244, 3=.213

Card Number: CF73

DSD Number: 173

ITL Number: 211 (new ITL number is 205)

Curtis: HD-13 cam & HD-13A carriage

Tumbler Locations: 1 2 3 4 5 6 7 8
 Ignition: XXXXXXXX
 Gas Cap: XXXXXX
 Seat: XXXXXX
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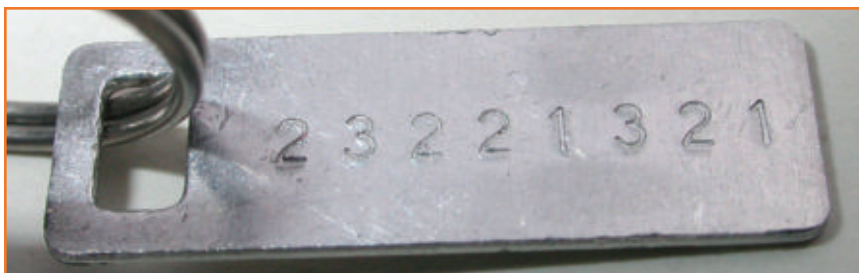

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11. The tag on the key ring has the key code stamped on it. It is direct read tip to bow.

Note: The ignition lock may have the key code stamped on it. If so, there will be 6 characters but the code is the last 3 and will be a J to U followed by 2 numbers. You can use key code software with this code series to narrow down the missing cuts after you determine the cuts for spaces 4-8 in a secondary lock. 

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TEST DRIVE

A1 QUICKPULL 2



THE NEED:

Even if you are good at picking locks, occasionally you will run into a lock you just can't pick open. On such occasions it is helpful to have other methods to open the locked opponent.

One lock that seems to give me the most trouble is the Schlage F series knoblocks.

Wouldn't it be wonderful if a tool was available that could help with the opening of Schlage F series knobs? One that would open the lock without doing damage so we could replace the same lock in the door!

THE ANSWER:

A1 Security Manufacturing Corporation has just such a tool. The Quickpull 2 (QP-2) has been designed to pull the knob from the Schlage F series locksets to enable the locksmith to open the lock without harming the mechanism.

The QP-2 is designed for removing a locked outer knob with the following knob designs: Bell, Georgian, Orbit and Plymouth.

USING THE QP-2:

The tool has several parts that work together to do the job. To pull the knob, slide the shaft and key into place in the body of the mechanism. The shaft can only be inserted one way due to a slot cut into the threads and a pin place in the head of the mechanism. These must engage to be able to slide

the shaft and key together. Now back off the wing knob until it is flush with the end of the threaded shaft. Insert the blade fully into the lock and spin the wing knob until it makes light contact with the black body.

With your off hand grab the ring of the knob and hold securely. With your other hand crank the wing knob about 1 1/2 turns clockwise. Push in on the retainer on the throat of the lock. If it will not push, turn the wing knob an additional 1/8 turn and push the retainer again. Repeat as necessary, being careful not to turn the wing knob too far each time. When the retainer goes in you can pull the knob off and unlock the door.

To remove the QP-2 from the lock, loosen the wing knob and slip the removal pick (curved tip upward) into the top of the keyway, allowing the pick to slip under the first pin. Raise the pin and remove the tool from the lock. Remove the collar from the back of the knob by pulling it straight off. Remove the lock cylinder from the knob.

Occasionally the face of the knob will be slightly deformed from the pulling action. This is perfectly normal and will not affect the reinstallation of the cylinder if the procedures outlined in the enclosed instructions are followed. They will enable you to form the knob back to original specs and use the existing lock again.

IN SUMMARY:

DESCRIPTION: The QP-2 is a tool designed to remove the knob from a locked F Series Schlage lock.

COMMENTS: A well made product that does just what it was designed to do.

TEST DRIVE RESULTS: A good tool for every locksmith's toolbox.

CONCLUSIONS:

I found the QP-2 to be very easy to use and was quite effective at removing the knob from a Schlage F series locks. The reforming of the knob was done quite easily and left the knob looking like new. It saved my bacon on a lock I was unable to pick.

I believe this is a tool every locksmith would find helpful unless they are an expert at picking locks. A1 makes another Quickpull tool (The QP) intended for use with Kwikset locks and it works just as well as the QP-2. Do not confuse the two, they are intended for different brands of locks and are slightly different in design.

TEST DRIVE SUMMARY:

The QP-2 is designed to remove the knob from a locked F Series Schlage locks and does just what it was designed to do. A well made product that will give years of trouble free use.

A good tool for every locksmith's toolbox. Care needs to be exercised when turning the wing knob to avoid unnecessary damage to the knob.

For more information contact:

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